



Shoot With The Best
**Smokeless Powders
Handloaders Guide**

4th edition
November 2004





ADI Limited Overview

ADI Limited is one of Australia's foremost defence companies, employing some 2,500 people. ADI is involved in a full range of defence support activities, from ammunition production through to the installation and commissioning of complex ship management and radar systems. ADI is proud of its position in the Australian market, and constantly strives to improve its performance through investment and innovation.

ADI has 116 years of experience in ammunition manufacture and 93 years of powder production. The company can trace its roots to the Colonial Ammunition Company (1888, Footscray, Victoria) and the Cordite Factory (1911, Maribyrnong, Victoria). Since then we have seen many changes, but one constant has been our commitment to providing quality ammunition and components for use in the defence of our country.

ADI's ammunition and propellant capabilities have kept pace with rapid developments in applied technology. ADI's expertise and capability in energetic materials is second-to-none in our region. It now extends to production of:

- insensitive rocket motor-propellant
- motor filling
- insensitive warhead filling
- propellant for the Australian Army's 25mm Bushmaster cannon ammunition.

Australia's sporting shooters have used ADI Sporting Powders for some years now. They are available on the Australian market as a direct result of our defence commitment; they are used by discerning shooters across the globe as a result of our international partnership. We are sure that our commitment to quality, innovation and our customers will see us at the forefront of powder development and manufacture for many years to come.

Shoot With The Best

Dear Shooter

It is with great pleasure that I present the 4th Edition of our reloading guide. You will certainly notice some differences in this edition, the least of which is that we have re-branded our powders since the last edition. Firstly, we have updated our labels and packaging as a result of the input and expectations of you, our customer. As part of the Thales – Transfield group, ADI is part of a strong and focussed international business and looks forward to serving the industry for many years to come.

Secondly, you will notice more data! Through our strong partnership with Hodgdon Powder Co. Inc. of the USA, we offer a reliable, much expanded range of data in this guide. Data for many obscure and unusual cartridges, as well as new cartridges has been included. The data has been fired under controlled conditions to ensure safety and repeatability. You will now see additional information including minimum and recommended starting loads.

All of our reloading information is also now available via the internet from our database located at: www.adi-limited.com/handloaders-guide.

Finally, you will notice changes to the range of powders offered. We have, and will continue to add new powders to our product range as they are developed as a result of your requirements and feedback. We will discontinue powders for which demand has almost ceased or duplication exists.

I hope you find this guide a valuable tool, and wish to thank you for your support over the years through the continued purchase of ADI Sporting Powders.

Happy Reloading.

Darryl Page
Director of Land - Ordnance
ADI Limited



Darryl Page

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SHOOT WITH THE BEST

The Evolution of Australian Sporting Powders



Enhanced ADI Sporting Powders Offer Superior:

- Performance
- Repeatability
- Product Range
- Security (anti-tamper lid)
- Storage
- Safety

Shoot With The Best!

ADI's range of powders offers the sporting shooter all the reliability, consistency and high performance they demand. This range of quality powders has been tested under the most rigorous conditions during development and production to produce a state-of-the-art product. These powders offer the right burning rates for every weapon type from shotguns to large calibre rifles.

All ADI powders are manufactured to the highest international standards. They are backed by a comprehensive product development and technical support service.

If you choose to reload, choose ADI Sporting Powders and **SHOOT WITH THE BEST.**

Shotgun and Pistol Powders

ADI shotgun powders are exceptionally clean burning and are available in a range of burning rates for 12, 20 and 28 gauge cartridges.

For sporting pistol shooters, ADI offers a range of powders with clean burning properties similar to shotgun powders. Covering the range of calibres from .25 ACP to .50 Action Express, ADI pistol powders perform with ultimate repeatability and reliability.

Rifle Powders

For rifles, the ADI sporting powders range is a product of our extensive experience in developing propellants for the Australian Defence Force. ADI offers a range of powders for most calibres from .17 Remington to 0.50 BMG. These unique sporting powders offer great repeatability under a wide range of ambient temperatures.



ADI Sporting Powders

ADI's range of sporting powders cater for the full range of burning rate requirements from the fast burning handgun and shotgun powders right down to the very slow large calibre rifle powders.

The shotgun powders are all disc powders, double base in composition, covering a wide range of applications in 12, 20 and 28 gauge loads. All the shotgun powders are exceptionally clean burning.

All ADI handgun powders are smaller diameter disc powders manufactured for uniform metering through powder loaders. The faster burning powders are double base in composition for increased energy. The slower burning powders are single base for use in heavy loads. All the handgun powders are exceptionally clean burning when loaded correctly.

All the rifle powders are single perforated tubular propellants of single base composition. ADI's experience in developing powders for the Australian Defence Force has shown that powders with these characteristics are suitable for use in extreme climatic conditions. Consequently, all the rifle powders have, as a feature, low ballistic temperature coefficients; that is, velocities and pressures do not vary greatly with ambient temperature unlike most of the other rifle powders that are available for reloading. In addition, the powders all have good loading characteristics with respect to bulk density and uniformity of metering through powder loaders. They are also very clean burning at normal loads.

All ADI sporting powders are packaged as UN class 1, Hazard Division 1.3C. (mass fire risk).

ADI powders are packed in 500g, 1kg, 2kg, or 4kg containers, depending upon the type of powder.

ADI is Australia's leading manufacturer of high quality, proven powders for sporting applications.

Choose ADI Sporting Powders and **"SHOOT WITH THE BEST"**.



ADI Smokeless Sporting Powders

Powder	Application Type	Container Size
AS30N	Shotgun / Pistol	0.5kg / 2kg
AP50N	Pistol	0.5kg / 2kg
AS50N	Shotgun	0.5kg / 2kg
AP70N	Shotgun / Pistol	0.5kg / 2kg
AP100	Pistol	0.5kg / 2kg
AR2205	Rifle / Pistol	0.5kg / 4kg
AR2207	Rifle	0.5kg / 4kg
Bench Mark 1	Rifle	0.5kg / 4kg
AR2219 (New)	Rifle	0.5kg / 4kg
Bench Mark 2	Rifle	0.5kg / 4kg
AR2206	Rifle	0.5kg / 4kg
AR2206H (New)	Rifle	0.5kg / 4kg
AR2208	Rifle	0.5kg / 4kg
AR2209	Rifle	0.5kg / 4kg
AR2213SC	Rifle	0.5kg / 4kg
AR2217	Rifle	0.5kg / 4kg
AR2225 (New)	Rifle	0.5kg / 4kg
AR2218	Rifle	0.5kg / 4kg

SHOTGUN POWDERS

In approximate order of burning rate from fastest to slowest.

AS30N



A versatile fast burning rate, low bulk density shotgun and handgun powder. It can be loaded over a broad range of handgun cartridges giving superb accuracy, weapon function and clean burning. As a shotgun powder it can be loaded into 24 gram to 28 gram loads in 12 gauge with consistency and the cleanest burning characteristics gained.

TYPICAL LOAD: 12 gauge Winchester compression formed case 70mm length

WAD	Winchester WAA1224
PRIMER	Winchester W209
SHOT WEIGHT	24 grams lead shot
CHARGE WEIGHT	18.5 grains
VELOCITY	1,300 ft/sec
PRESSURE	9,500 psi

AS50N



An effective intermediate bulk density, fast/medium burning rate shotgun powder very suitable for 28 gram loads up to 1350 ft/sec in 12 gauge and 24 gram loads up to 1200 ft/sec in 20 gauge.

TYPICAL LOAD: 12 gauge Winchester compression formed case 70mm length

WAD	Winchester WAA12SL
PRIMER	Winchester W209
SHOT WEIGHT	28 grams lead shot
CHARGE WEIGHT	21.5 grains
VELOCITY	1,300 ft/sec
PRESSURE	10,450 psi

AP70N



A versatile medium burning rate handgun powder and an effective slow/medium burning rate shotgun powder. It can be loaded over a broad range of handgun cartridges, from .32 to .45 calibre. As a shotgun powder it can be loaded into 32 gram to 36 gram loads in 12 gauge as well as loads in 20 and 28 gauges.

TYPICAL LOAD: 12 gauge Winchester compression formed case 70mm length

WAD	Winchester WAA12
PRIMER	Winchester W209 primer
SHOT WEIGHT	32 grams lead shot
CHARGE WEIGHT	24.5 grains
VELOCITY	1,300 ft/sec
PRESSURE	11,200 psi

PISTOL POWDERS

In approximate order of burning rate from fastest to slowest.

AS30N



A versatile fast burning rate, low bulk density shotgun and handgun powder. It can be loaded over a broad range of handgun cartridges giving superb accuracy, weapon function and clean burning. As a shotgun powder it can be loaded into 24 gram to 28 gram loads in 12 gauge with consistency and the cleanest burning characteristics gained.

TYPICAL LOAD: .38 Special (4" vented barrel) with 148 grain cast lead projectile

CHARGE WEIGHT	2.5 grains
VELOCITY	836 ft/sec

AP50N



An effective intermediate bulk density medium/fast burning rate handgun powder very suitable for medium target loads in .38 special. It has proven its usefulness in equipment such as 'Ammo' Load for the automated reloading of ammunition for police and paramilitary applications in this calibre. Its burning rate, bulk density and clean burning properties are similar to those of AS50N shotgun powder but it has superior metering characteristics for small charge weights.

TYPICAL LOAD: .38 Special (4" vented barrel) with 158 grain lead SWC projectile

CHARGE WEIGHT	3.6 grains
VELOCITY	745 ft/sec

AP70N



A versatile medium burning rate handgun powder and an effective slow/medium burning rate shotgun powder. It can be loaded over a broad range of handgun cartridges, from .32 to .45 calibre. As a shotgun powder it can be loaded into 32 gram to 36 gram loads in 12 gauge as well as loads in 20 and 28 gauges.

TYPICAL LOAD: .44 Remington Magnum (8" barrel) with 240 grain cast lead projectile

CHARGE WEIGHT	10 grains
VELOCITY	1,225 ft/sec

PISTOL POWDERS

In approximate order of burning rate from fastest to slowest.

AP100



An effective single base slow burning rate handgun powder suitable for major power factor loads in .38 super and similar cartridges. It shares the same clean burning and superior metering characteristics with the other ADI handgun powders.

TYPICAL LOAD: .38 Super Auto (4" barrel) with 135 grain cast lead projectile
CHARGE WEIGHT 7.5 grains
VELOCITY 1,325 ft/sec

AR2205



A very fine grained, very fast burning rifle powder suited to .22 Hornet loads but also useful in some Magnum pistol loads. Its burning rate is close to that of IMR 4227.

TYPICAL LOAD: .357 Magnum (10" barrel) with 150 grain jacketed projectile
CHARGE WEIGHT 16.5 grains
VELOCITY 1,583 ft/sec

RIFLE POWDERS

In approximate order of burning rate from fastest to slowest.

AR2205



A very fine grained, very fast burning rifle powder suited to .22 Hornet loads but also useful in some Magnum pistol loads. Its burning rate is close to that of IMR 4227.

TYPICAL LOAD: .22 Hornet with 45 grain jacketed projectile

CHARGE WEIGHT	9.8 grains
VELOCITY	2,484 ft/sec

AR2207



A very useful fine grained fast burning rifle powder for cartridges such as the .222 Remington and 7.62mm x 39 Russian. Its burning rate is close to that of IMR 4198 although it meters significantly better through standard powder loaders.

TYPICAL LOAD: .222 Remington with 50 grain jacketed projectile

CHARGE WEIGHT	20.5 grains
VELOCITY	3,160 ft/sec

Bench Mark 1



A very fine grained powder with very high bulk density and superior metering characteristics for use by bench rest shooters in cartridges such as .22 PPC. It is intermediate in burning rate between AR2207 and AR2206.

TYPICAL LOAD: .223 Remington with 55 grain jacketed projectile

CHARGE WEIGHT	22.6 grains
VELOCITY	2,995 ft/sec

AR2219

NEW



Originally developed for the Australian Defence Force 5.56mm its burning rate lies between Bench Mark 1 and Bench Mark 2. It is considered having good accuracy in small and medium capacity cartridges.

TYPICAL LOAD: 6mm PPC with 70 grain jacketed projectile

CHARGE WEIGHT	26.5 grains
VELOCITY	3,068 ft/sec

RIFLE POWDERS

In approximate order of burning rate from fastest to slowest.

Bench Mark 2



A fine grained powder with very high bulk density and superior metering characteristics for use in national rifle association match loads such as 223 Remington with 68-69 grain projectiles. It is similar in burning rate close to AR2206, but can be faster depending on the calibre used.

TYPICAL LOAD: .22-250 Remington with 52 grain jacketed projectile

CHARGE WEIGHT 34.6 grains

VELOCITY 3,755 ft/sec

AR2206



A very versatile medium burning rifle powder suitable for use in .308 Winchester. Originally developed for the Australian Defence Forces 7.62mm. It can also be used in a wide range of other cartridges.

TYPICAL LOAD: .308 Winchester with 155 grain jacketed projectile

CHARGE WEIGHT 44.5 grains

VELOCITY 2,825 ft/sec

AR2206H

NEW



Has a burning rate slightly slower than AR2206 and is between AR2206 and AR2208. A very versatile powder in a range of calibres giving outstanding accuracy.

TYPICAL LOAD: .308 Winchester with 155 grain jacketed projectile

CHARGE WEIGHT 46 grains

VELOCITY 2,873 ft/sec

AR2208



A useful fine grained medium/slow burning rifle powder for medium sized cartridges such as .308 Winchester and 25-06. Its burning rate is close to that of IMR 4064 but its bulk density is higher.

TYPICAL LOAD: 30-30 Winchester with 150 grain jacketed projectile

CHARGE WEIGHT 34.5 grains

VELOCITY 2,349 ft/sec

RIFLE POWDERS

In approximate order of burning rate from fastest to slowest.

AR2209



A useful fine grained, moderately slow burning rifle powder for cartridges such as 22-250, .243 Winchester, .270 Winchester, 30-06 and 300 Winchester Magnum. Its burning rate is close to that of IMR 4350 but its bulk density is a little higher and its metering through a powder loader is better.

TYPICAL LOAD: 30-06 Springfield with 165 grain jacketed projectile

CHARGE WEIGHT 59 grains

VELOCITY 2,835 ft/sec

AR2213SC



A slow burning rate rifle powder for cartridges such as .270 Winchester and 300 Winchester Magnum.

AR2213SC replaced AR2213 in the Australian reloading market. AR2213 had been produced by ADI only for supply to the Australian reloading market and was only manufactured every three to four years. As a result, the powder that reached the shooter may not be of recent manufacture and stockout situations occasionally occurred. ADI produces AR2213SC for the North American reloading market and is in regular production. This enables ADI to be in a better position to guarantee supply.

TYPICAL LOAD: 300 Winchester Magnum with 165 grain jacketed projectile

CHARGE WEIGHT 75.5 grains

VELOCITY 3,055 ft/sec

AR2217



A fine grained, very slow burning rifle powder, suited for use in most large calibre magnums.

TYPICAL LOAD: 7mm Remington Magnum with 150 grain jacketed projectile

CHARGE WEIGHT 68 grains

VELOCITY 2,936 ft/sec

RIFLE POWDERS

In approximate order of burning rate from fastest to slowest.

AR2225

NEW



A very slow burning rate propellant optimised for the 300 Remington Ultra Magnum. It is also suitable for large capacity magnum cases and small overbore cartridges.

TYPICAL LOAD: 300 Remington Ultra Magnum with 180 grain jacketed projectile

CHARGE WEIGHT 100.5 grains

VELOCITY 3,300 ft/sec

AR2218



An extremely slow burning rifle propellant, initially developed for the Australian Defence Force 0.50 cal and is perfect for over-bore, large capacity magnums.

TYPICAL LOAD: 30-378 Weatherby with 220 grain jacketed projectile

CHARGE WEIGHT 118.5 grains

VELOCITY 3,145 ft/sec

WARNINGS

ADI SMOKELESS PROPELLANTS

1. For the safety of purchaser and others, ADI powders must be used in accordance with the latest edition of the ADI Smokeless Powders Handloader's Guide. Overloading, incorrect storage or improper use can result in personal injury or death to the user and/or other persons as well as damage to property. It is essential that users of ADI powders:
 - Follow the recommendations of the ADI Smokeless Powders Handloader's Guide by not exceeding the maximum loads.
 - Use only the latest reloading data.
 - Keep the powders out of reach of children and those persons unfamiliar with the properties of smokeless powders.
 - Store the powders in a cool, dry and safe place with the lid tightly closed.
 - Check the powders at least once per year for any signs of deterioration as described below.
 - Store all powders in the original containers.
 - Do not smoke in areas where ADI powders are stored and used.
 - Do not have loaded firearms in areas where ADI powders are stored and used.
2. Loading data provided within the ADI Smokeless Powders Handloader's Guide has been compiled from many sources including actual ballistic testing by ADI under controlled conditions and published loading/ballistic information available in the literature. The ballistic performance of smokeless powders varies considerably depending upon factors such as the type of firearm being used and its condition, the particular components being used in a cartridge with a powder, the reloading techniques used, the actual batch of the powder being loaded, weather conditions at the time of firing, etc. Therefore, it is not possible for the loading data in the ADI Smokeless Powders Handloader's Guide (or any other similar manual) to be other than a guide to a safe load for any particular application. Exceeding the recommended loading data will increase the chance of obtaining unsafe pressures and may result in damage and/or personal injury or even death.
3. While ADI controls the burning rate of its various smokeless powders within tight limits at the time of manufacture, all other factors affecting the ballistic performance of these powders at the time of use are outside ADI's control. ADI therefore disclaims any and all warranties concerning the use of its various smokeless powders for any particular application. ADI does not assume, nor does it authorise any person to assume for it, any liability in connection with the use of any product or data.
4. The buyer of ADI Smokeless Powders assumes the risk of having to follow safe loading practices otherwise damage and/or severe personal injury (including death) may occur.
5. NEVER substitute ADI Smokeless Powders for black powder or Pyrodex® or mix smokeless powders with these materials. NEVER use ADI smokeless powders in black powder firearms, saluting cannons or similar devices. Any of these practices may result in the firearm blowing apart resulting in property damage, personal injury or even death.
6. Store smokeless powders in a cool dry place separate from solvents, flammable gases and other combustible materials. Ensure that the storage area selected is free from any possible source of excess heat and is isolated from open flame, hot water heaters, furnaces, chimneys, flue pipes, etc. Avoid storing smokeless powders in areas which may be heated by the sun or where electrical, electronic or mechanical equipment is operated.

Do not allow containers of powder to contact walls of storage areas which are exposed on the other side to sunlight or other form of heating. Any such form of heating or ignition may result in a fire, either immediately or after some time due to accelerated chemical

WARNINGS

ADI SMOKELESS PROPELLANTS

deterioration and subsequent spontaneous ignition. An average storage temperature below 25° C is recommended to obtain a safe shelf life of at least 10 years from the date of packing. Increased storage temperature will reduce the safe shelf life significantly—by approximately one-third for every 10° C above 25° C.

7. All smokeless powders deteriorate chemically as they get older. This rate of deterioration can be accelerated by storage in warm conditions, exposure to other chemicals and exposure to direct sunlight etc. Any such deterioration may ultimately lead to a fire through spontaneous ignition of the powder.

CHECK containers of smokeless powder for possible chemical deterioration through age or inadequate storage. Yearly checks are recommended wherever average daily summer temperatures exceed 30° C. Where average daily summer temperatures are usually below 30° C checks should be made every two years.

Chemical deterioration may ultimately lead to spontaneous ignition of the powder. Chemical deterioration of smokeless powder can be recognised by carefully smelling the contents of the container. Any deterioration produces an acrid, acidic odour quite different from the normal sweet smelling odours of ethanol or ether which are usually present. Rusting of metal surfaces exposed to smokeless powder can also indicate deterioration.

8. Deteriorated smokeless powder should be disposed of by carefully burning it in thin layers (not more than 10mm deep) in small quantities (never more than 500 gram) in an isolated location (at least 10 metres from any other combustible material). **DO NOT LIGHT THE POWDER DIRECTLY.** Always use an ignition train of slow burning combustible material so that you are able to retreat to a safe distance before the powder ignites.

9. Store ADI Smokeless Powders in their original containers which have been approved for that purpose. Storage cabinets used for storage of containers of Smokeless powders should be constructed of insulating materials with weak walls, seams or joints to provide easy venting in the event of a fire. Such storage cabinets should not be located on walls where heating on the other side (by the sun or other heating arrangement) will occur.
10. **DO NOT SMOKE** in areas where smokeless powder is stored or used.
11. **DO NOT HAVE LOADED FIREARMS** in areas where ADI Smokeless Powders are stored or used—accidental or intended operation of the firearm may cause ignition of smokeless powder, either by direct ignition of powder in the open or through bullet impact on containers of powders.
12. Do not cut, pierce or puncture powder containers.
13. ADI rifle powders are designed to give less ballistic variation with temperature changes than regular smokeless powders. This does not mean that ballistics will never change with temperature. The extent to which change is minimised depends upon many factors including the calibre, primer brand and projectile weight. Care should always be taken to ensure that any particular load is safe at the extreme temperatures at which it will be used.
14. Smokeless powders can change their moisture reasonably quickly if exposed to the atmosphere. Any change of moisture can affect the powder burning rate and the effectiveness or safety of a particular load. Always minimise the exposure of any smokeless powder to the atmosphere during loading. Use minimum quantities of powder at any time in powder loaders and keep lids on containers tightly closed at all times. Do not keep powders in loaders for long periods of time. In this way you are more likely to preserve the appropriate level of moisture for the lot of the powder in use and obtain

WARNINGS

ADI SMOKELESS PROPELLANTS

- consistent reliable ballistic performances from every load.
15. Follow the hints on Reloading Safety given in the ADI Smokeless Powders Reloader's Guide. Remember that smokeless powders and ammunition are explosive and that firearms are only designed to operate within safe working limits and are not indestructible. The wrong combination of powder burning rate, charge weight, cartridge components and weapon can be disastrous. ALWAYS TAKE EXTREME CAUTION when you are reloading.
 16. Never mix any varieties of powder, regardless of their type, brand or source.
 17. Do not salvage powder from old cartridges, and do not mix new and salvaged powder.
 18. Always store powder in the smallest practical quantities. If you have large quantities of powder, do not maintain it all in one place only. Spread your containers, and remember that small containers are safer than large containers.

RELOADING SAFETY

ADI SMOKELESS PROPELLANTS

1. These instructions on Reloading Safety should be read in conjunction with the Warnings section.
2. Take care at all times - items and equipment used for reloading can all be dangerous if mishandled or abused.
3. Keep reloading components out of the reach of children - in particular powder, primers and lead projectiles.
4. Keep powder away from other combustible material and from possible sources of ignition.
5. Do not keep old powders, salvaged powders or powders of uncertain origins.
6. Do not smoke in areas where powder is stored or while handling powder or primers.
7. Only store powder in its original container to avoid the risk of the powder being mislabelled.
8. Do not leave any powder or primers in reloading press or in powder/primer dispensers after handloading is completed.
9. Clean up spilled powder promptly. Use a brush and dustpan. Do not use a vacuum cleaner. Keep the waste powder under water in a suitable container until it can be disposed of safely. Do not accumulate large amounts of waste powder.
10. Each ADI Smokeless Powder has specific burning rate and bulking characteristics determined by its composition, geometry and manufacturing process. The factors are carefully controlled during manufacture to ensure consistent ballistic performance. Do not attempt to mix or blend different powders as such mixtures may produce dangerous and erratic velocities and pressures.
11. Develop a strict routine for reloading operations and avoid distraction such as television, visitors etc.
12. Recheck each operation for safety and uniformity.
13. Double check critical points like powder type, projectile weight and diameter before starting.
14. Only have one powder type and one projectile type in the actual working area while reloading.
15. Do not trim cases below the minimum design length for any calibre.
16. Ensure that cases are not deformed and are free of body splits, mouth cracks, enlarged primer pockets, enlarged flash holes and any foreign matter. Only use cases which are dry (but do not dry cases by direct heating or in an oven above 150° C).
17. Check projectiles for damage and ensure that lead projectiles are free from casting defects.
18. Always wear safety glasses or goggles while reloading and wear gloves while handling lead projectiles.
19. Owing to the effect of variations within allowable manufacturing tolerances for cartridge components made by different manufacturers, weapon variations and conditions, operating temperatures etc, pressures developed by any given rifle or pistol load can vary significantly from those that apply to our recommended loads. It is therefore **essential** that loads be worked up from a charge weight lower than the recommended maximum, watching for any signs of excessive pressure (difficult extraction, gas leaks, flattened or blown primers, unusual recoil or expanded case heads). Loads can then be worked up to safe comfortable levels providing signs of excessive pressure are not observed. If signs of excessive pressure are noticed then loads must be reduced until they are at least 5% lower than the load at which the excessive pressure signs were first noted.

RELOADING SAFETY

ADI SMOKELESS PROPELLANTS

20. Take special care when working up trial loads with slow burning powders in large calibre cartridges. Light loads in some calibres may produce occasional dangerously high pressures. It is suggested that minimum loads in large calibre cartridges should not be reduced below about 75% case capacity.
21. Keep detailed records of your safe loads for your weapons and consult them before reloading. However, be prepared to work them up again whenever you change the lot of powder or alter the weapon. Normally a starting reduction of 5% in charge weight is all that should be necessary when you change lots of powder.
22. Never exceed maximum recommended loads.
23. Carry out frequent check weighing of powder charges thrown either by a hand operated powder measure or reloading press to ensure the setting has not changed. At least five charges should be used for each check using a good set of powder scales.
24. Because many recommended loads (especially for pistols) do not fill the cartridge case it is essential that, prior to bullet seating, each filled case is individually inspected to ensure that it contains only a single charge. Never load a cartridge with a double charge as excessively dangerous pressures are certain to occur. After bullet seating, the cartridge overall length must be individually checked to ensure that it has not fallen below the minimum design value where excessive dangerous pressures may be experienced.
25. Ensure that all reloaded cartridges are free from oil, grease, excess lead bullet lubricant and any other foreign matter prior to firing.
26. Never attempt to decap live primers from a cartridge case. Primed cases or cartridges should always be fired in a firearm to destroy the primer.

NOTE: Whenever practicable, avoid loading to maximum possible velocity. Experienced shooters know that velocities which are somewhat slower than maximum will usually give the best accuracy while helping to prolong weapon and barrel life and making shooting more comfortable.

Any questions or concerns related to the use of ADI Smokeless Powders should be directed to:

ADI Limited, Land - Ordnance, Mulwala on
(03) 5742 2200.

No Data on This Page



Shotgun Data

Loads listed here should be followed as they are printed. These loads are for use with lead shot only.

They must not be used with steel shot under any circumstances.

NEVER EXCEED THE MAXIMUM RECOMMENDED LOADS.

SHOTGUN DATA

SHOTGUN

Introduction

The shotgun data for this edition was developed through the use of pressure/proof barrels. All loads for standard cartridges adhere to the guidelines provided by the Sporting Arms and Ammunition Manufacturers Institute (SAAMI).

Loads have been listed in a convenient presentation that lists all components used for a given set of data. The data shown is to be used for lead shot only and should not be used with steel or bismuth shot. Never substitute components when loading shotshells using this data. Substitution of different components could cause excessive or unsafe pressures, which may result in damage to your firearm and/or personal injury.

Velocity

Velocity is measured electronically with the use of two magnetic sightscreens. The screens measure the time taken for the shot to pass through the screens. Screens are set at 3 feet apart with the first screen positioned 1½ feet from the muzzle.

Pressure

Pressures have been measured electronically with a transducer as pounds per square inch (psi). This method utilises a pressure transducer, which rests against the cartridge in the chamber. When the cartridge is fired, the gases cause the shotgun shell to expand against the pressure transducer.

Loading Instructions

When loading, weigh actual charges thrown by the bushing or charge bar. Bushing or charge bars do not throw the exact powder charge as listed in the tables. Charge weight variations occur because of small tolerances in bushing sizes, tolerances in bulk density of powder and the way each loader is mounted and operated. It is essential that charges being dropped are verified for safety and to ensure you are obtaining the charge weight listed.

SHOTGUN

12 Gauge 2¾" (70mm) ACTIV Plastic Cases

Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	19.0	6,150 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	20.0	6,600 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	20.5	7,150 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	21.5	7,700 psi	1,350	Gualandi	WIN209 Fiocchi 616	30"
	22.5	8,250 psi	1,400	Gualandi	WIN209 Fiocchi 616	30"

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	19.0	8,100 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	19.8	9,000 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	21.0	10,200 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	21.0	7,050 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
AS50N	21.6	7,850 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	22.6	8,700 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	18.7	11,250 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
AS50N	21.0	8,550 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	22.0	10,450 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	22.6	11,350 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"

SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
Weight 32g - (1 1/8 oz) - Shot size 3 to 12 Lead (cont)						
AP70N	26.0	8,800 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	27.0	9,850 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"

Weight: 36g - (1 1/4 oz) - Shot size 3 to 12 Lead						
POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	25.5	9,200 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	26.4	10,150 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	27.5	10,900 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"

SHOTGUN

12 Gauge 2¾" (70mm) Plastic compression-formed cases (Winchester AA12; Mk 5 Super X; Supreme; Beretta)

Weight: 24g - (7/8 oz) - Lee Lead Slug

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	29.7	9,548 psi	1,550	WAA12SL	WIN209	30"

Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	16.8	7,000 psi	1,200	WAA1224	WIN209 CCI209 Fiocchi 616	30"
	17.5	8,350 psi	1,255	WAA1224	WIN209 CCI209 Fiocchi 616	30"
	18.5	9,500 psi	1,300	WAA1224	WIN209 CCI209 Fiocchi 616	30"
	19.2	10,600 psi	1,350	WAA1224	WIN209 CCI209 Fiocchi 616	30"
AS50N	21.0	7,800 psi	1,300	WAA1224	WIN209 CCI209 Fiocchi 616	30"
	22.0	8,300 psi	1,350	WAA1224	WIN209 CCI209 Fiocchi 616	30"

Weight: 28g - (1 oz) - Lee Lead Slug

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	28.1	9,984 psi	1,450	WAA12	WIN209	30"

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	17.0	8,450 psi	1,180	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	18.5	9,750 psi	1,250	WAA12SL	WIN209 CCI209 Fiocchi 616	30"

SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
Weight 28g - (1 oz) - Shot size 3 to 12 Lead (cont)						
AS50N	19.5	11,000 psi	1,300	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	19.5	8,000 psi	1,180	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	20.4	9,200 psi	1,250	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	21.5	10,450 psi	1,300	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
AS50N	22.5	11,250 psi	1,350	WAA12SL	WIN209 CCI209 Fiocchi 616	30"

Weight: 32g - (1 1/8 oz) - Shot size 2 to BBs Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	24.1	8,403 psi	1,250	WAA12	WIN209	30"
	25.0	9,411 psi	1,300	WAA12	WIN209	30"
	25.9	10,418 psi	1,350	WAA12	WIN209	30"
	26.4	10,922 psi	1,375	WAA12	WIN209	30"

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	16.3	7,500 psi	1,090	WAA12	WIN209 CCI209 Fiocchi 616	30"
	17.0	10,000 psi	1,145	WAA12	WIN209 CCI209 Fiocchi 616	30"
	19.0	9,000 psi	1,145	WAA12	WIN209 CCI209 Fiocchi 616	30"
	19.5	9,850 psi	1,200	WAA12	WIN209 CCI209 Fiocchi 616	30"

SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
Weight 32g - (1 1/8 oz) - Shot size 3 to 12 Lead (cont)						
AP70N	23.0	9,750 psi	1,200	WAA12	WIN209 CCI209 Fiocchi 616	30"
	23.5	10,100 psi	1,250	WAA12	WIN209 CCI209 Fiocchi 616	30"
	24.5	11,200 psi	1,300	WAA12	WIN209 CCI209 Fiocchi 616	30"

Weight: 36g - (1 1/4 oz) - Shot size 2 to BBs Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	23.8	10,365 psi	1,250	WAA12F114	WIN209	30"
	24.9	11,358 psi	1,300	WAA12F114	WIN209	30"

Weight: 36g - (1 1/4 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	23.0	10,900 psi	1,220	WAA12F114	WIN209	30"
	22.5	11,400 psi	1,220	WAA12F114	CCI209	30"

Weight: SG/00 - 9 Lead Balls

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS50N	21.1	8,963 psi	1,250	WAA12F114	WIN209	30"
	22.3	10,023 psi	1,300	WAA12F114	WIN209	30"
	23.5	11,084 psi	1,350	WAA12F114	WIN209	30"
AP70N	24.9	8,646 psi	1,300	WAA12F114	WIN209	30"
	25.8	9,498 psi	1,350	WAA12F114	WIN209	30"
	26.7	10,350 psi	1,400	WAA12F114	WIN209	30"

SHOTGUN

12 Gauge 2¾" (70mm) Plastic Reiffenhauser style cases (Fiocchi Cheddite)

Weight: 24g - (7/8 oz) - Lee Lead Slug

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	31.3	8,435 psi	1,550	B&P H.24	Fiocchi 616	30"
	32.6	7,812 psi	1,550	WAA12SL	WIN209	30"

Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	19.0	6,150 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	20.0	6,600 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	20.5	7,150 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	21.5	7,700 psi	1,350	Gualandi	WIN209 Fiocchi 616	30"
	22.5	8,250 psi	1,400	Gualandi	WIN209 Fiocchi 616	30"
	16.8	6,200 psi	1,200	WAA12SL	WIN209	30"
	18.0	7,200 psi	1,250	WAA12SL	WIN209	30"
	19.0	8,000 psi	1,300	WAA12SL	WIN209	30"

Weight: 28g - (1 oz) - Lee Lead Slug

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	30.4	8,303 psi	1,450	B&P H.24	WIN209	30"
	30.0	8,446 psi	1,450	WAA12	WIN209	30"

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	19.5	7,750 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	20.0	8,200 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	21.0	9,050 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	22.0	9,800 psi	1,350	Gualandi	WIN209 Fiocchi 616	30"
	17.1	7,800 psi	1,180	WAA12SL	WIN209	30"
	18.5	9,200 psi	1,235	WAA12SL	WIN209	30"

SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
Weight 28g - (1 oz) - Shot size 3 to 12 Lead (cont)						
	19.3	10,060 psi	1,290	WAA12SL	WIN209	30"
AS50N	21.5	6,600 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	22.5	7,250 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	23.5	8,050 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	24.5	9,500 psi	1,350	Gualandi	WIN209 Fiocchi 616	30"
	19.0	7,100 psi	1,180	WAA12SL	WIN209	30"
	20.0	8,600 psi	1,235	WAA12SL	WIN209	30"
	21.1	9,600 psi	1,290	WAA12SL	WIN209	30"

Weight: 32g - (1 1/8 oz) - Shot size 2 to BBs Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	26.5	8,096 psi	1,300	B&P H.24	Fiocchi 616	30"
	27.8	8,898 psi	1,350	B&P H.24	Fiocchi 616	30"
	28.4	9,299 psi	1,375	B&P H.24	Fiocchi 616	30"
	26.7	7,934 psi	1,300	WAA12	WIN209	30"
	27.9	8,722 psi	1,350	WAA12	WIN209	30"
	28.5	9,116 psi	1,375	WAA12	WIN209	30"

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS50N	22.0	8,500 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	22.8	9,500 psi	1,255	Gualandi	WIN209 Fiocchi 616	30"
	23.5	11,000 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	19.2	7,000 psi	1,090	WAA12	WIN209	30"
	19.7	7,400 psi	1,145	WAA12	WIN209	30"
	21.0	8,500 psi	1,200	WAA12	WIN209	30"
	23.3	9,100 psi	1,200	WAA12	WIN209	30"
	24.0	9,600 psi	1,255	WAA12	WIN209	30"
AP70N	25.0	10,800 psi	1,310	WAA12	WIN209	30"

SHOTGUN

Weight: 36g - (1 1/4 oz) - Shot size 2 to BBs Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	25.8	8,626 psi	1,250	B&P H.21	Fiocchi 616	30"
	26.9	9,554 psi	1,300	B&P H.21	Fiocchi 616	30"
	28.0	10,482 psi	1,350	B&P H.21	Fiocchi 616	30"
	26.1	8,313 psi	1,250	WAA12F114	WIN209	30"
	26.9	9,305 psi	1,300	WAA12F114	WIN209	30"
	27.7	10,296 psi	1,350	WAA12F114	WIN209	30"

Weight: 36g - (1 1/4 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	24.0	10,900 psi	1,220	WAA12F114	Fiocchi 616	30"

Weight: SG/00 - 9 Lead Balls

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS50N	22.7	7,153 psi	1,250	B&P H.21	Fiocchi 616	30"
	23.9	8,243 psi	1,300	B&P H.21	Fiocchi 616	30"
	25.0	9,334 psi	1,350	B&P H.21	Fiocchi 616	30"
	22.3	7,067 psi	1,250	WAA12F114	WIN209	30"
	23.5	8,164 psi	1,300	WAA12F114	WIN209	30"
	24.7	9,260 psi	1,350	WAA12F114	WIN209	30"
AP70N	25.8	7,931 psi	1,300	B&P H.21	Fiocchi 616	30"
	27.2	8,523 psi	1,350	B&P H.21	Fiocchi 616	30"
	28.5	9,115 psi	1,400	B&P H.21	Fiocchi 616	30"
	26.7	7,312 psi	1,300	WAA12F114	WIN209	30"
	27.6	8,150 psi	1,350	WAA12F114	WIN209	30"
	28.5	8,988 psi	1,400	WAA12F114	WIN209	30"

SHOTGUN

16 Gauge 2¾" (70mm) Winchester AA Plastic Compression-Formed Cases

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	19.0	9,200 psi	1,165	WAA16	WIN209	30"
	20.0	10,300 psi	1,220	WAA16	WIN209	30"
	20.7	11,000 psi	1,220	WAA16	WIN209	30"

20 Gauge 2¾" (70mm) ACTIV Plastic Cases

Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	18.5	8,300 psi	1,200	WAA20	WIN209	30"

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	18.5	8,700 psi	1,165	WAA20F1	CCI209	30"
	19.0	9,600 psi	1,220	WAA20F1	CCI209	30"

20 Gauge 2¾" (70mm) Winchester AA Plastic Compression-Formed Cases

Weight: 22g - (3/4 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	15.0	8,700 psi	1,180	WAA20	WIN209 CCI209	30"
	16.0	9,820 psi	1,245	WAA20	WIN209 CCI209	30"
	17.0	11,050 psi	1,320	WAA20	WIN209 CCI209	30"

Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	15.0	10,100 psi	1,125	WAA20	WIN209 CCI209	30"
	15.5	10,700 psi	1,160	WAA20	WIN209 CCI209	30"
	16.0	11,400 psi	1,200	WAA20	WIN209 CCI209	30"

SHOTGUN

20 Gauge 3" (75mm) Remington Premier Plastic Cases

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	17	10,070 psi	1,075	Rem. SP 20	WIN209	30"
	18	11,990 psi	1,135	Rem. SP 20	WIN209	30"

20 Gauge 3" (75mm) Winchester AA Plastic Compression-Formed Cases

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	16.5	11,980 psi	1,105	Rem. SP 20	WIN209	30"
	16	11,130 psi	1,070	Rem. SP 20	WIN209	30"

28 Gauge 2¾" (70mm) Winchester AA Plastic Compression-Formed Cases

Weight: 22g - (3/4 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	13.0	10,800 psi	1,200	WWAA28	WIN209	30"

410 Bore 2½" Winchester AA Plastic Compression-Formed Cases

Weight: 14g - (1/2 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AR2205	14.0	10,500 psi	1,200	WWAA41	WIN209 CCI209M	28"

SHOTGUN POWDER BUSHING CHART AS30N

CHARGE WEIGHT (grains)	LEE	PONSNESS WARREN	BLAIR	MEC	LYMAN	REDDING	DL-155 DL-155APF DL-105	PACIFIC DL-266	DL-366	GT, FW, LT A, AP, D, DP	TEXAN M	HORNADY
16.0	.141	H		29								429
16.5	.148	F1				12	414	420	420	124	126	
	.155	I	429	30	H10	13						
17.0	.163	J		31						125	127	441
17.5		J1	441		H11		423	432	432		128	
18.0		J2		32		14				127	129	456
18.5	.171	G	450				432	441	441	128		
		G1		33							130	
19.0	.180				H11A		444	450	450	129	131	468
			459	34	H12							
19.5		M	465							130	132	
20.0	.189			35			453	459	462	131		483
20.5		N		36	H13	15				132		
21.0		O		37								495
21.5		P										
22.0	.198	Q		38								507
22.5				38A								
23.0												
23.5												

NOTE: This bushing chart does not represent recommended charge weights. It is intended only as a guide to the approximate weight of powder which will be dropped by the listed bushing. It is essential that charges being dropped are weighed on each occasion a loading machine is used.

SHOTGUN POWDER BUSHING CHART AS50N

CHARGE WEIGHT (grains)	LEE	PONSNESS WARREN	BLAIR	MEC	LYMAN	REDDING	DL-155 DL-155APF DL-105	PACIFIC		GT, FW, LT A, AP, D, DP	TEXAN		HORNADY
								DL-266	DL-366		M		
13.7	.105			21									
14.0													375
14.3				22									378
14.6													381
													384
14.9				23									387
15.2	.116	D											393
15.5		D1		24									396
16.0	.122	E		25									402
16.5	.128	E1		26									408
				27									414
17.0		E2											
17.5	.134	F1		28									420
18.0				29									423
18.5	.141	H				12					124		429
19.0		I	429	30	H10	13	414	420	420	125	126		435
19.5	.148	J		31							127		441
20.0		J1	441		H11		423	423	432	126	128		447
20.5	.155	K	450	32		14				127			453
							432	441	441		129		
21.0				33						128	130		459
21.5	.163	L			H11A					129			465
			459		H12		444	450	450		131		
22.0				34						130			471
22.5	.171	M	465								132		477
23.0				35			453	459	462	131	133		483
23.5	.180	N		36		15	462	479	474	132			489
24.0		O			H13								495
24.5	.189	P		37									501
25.0		Q		38									507
25.5													
26.0	.198			38A									

NOTE: This bushing chart does not represent recommended charge weights. It is intended only as a guide to the approximate weight of powder which will be dropped by the listed bushing. It is essential that charges being dropped are weighed on each occasion a loading machine is used.

SHOTGUN POWDER BUSHING CHART AP70N

CHARGE WEIGHT (grains)	LEE	PONSNESS WARREN	BLAIR	MEC	LYMAN	REDDING	DL-155 DL-155APF DL-105	PACIFIC		GT, FW, LT A, AP, D, DP	TEXAN		HORNADY
								DL-266	DL-366		M		
12.7		C									112		
13.0		C		16									330
13.5				17							113		
13.6										111			
14.0		D1		18						112	114		342
14.5				19							115		
15.0	.095										116		354
15.5		E		20						113	117		
16.0				21						114			366
		E1		22						115			
16.5										116	118		372
	.105												
17.0		E2		22							119		378
		D								117			
17.4				23									384
	.110	D1								118	120		
18.0		F									121		390
18.5	.116	F1		24									393
19.0		F6		25						119	122		402
19.4	.122		26							120	123		405
20.0	.123	G		27						121	124		411
20.6		G1								122			417
21.0	.134			28						123			420
21.5							423	420	420		126		423
22.0		H		29		12				124	127		429
22.5	.141			30	H10		432	432	432		128		432
23.0		I	429			13				125			438
23.5	.148			31	H11					126			441
						14				127			
24.0	.151	J	441				447	447	447		129		447
24.5	.155	J1		32							130		450
25.0		K					456	456	456	128	131		456
	.163	L	450	33						129			
26.0			459	34			468	468	468		132		468
				35						130	133		
27.0	.171	M	465				480	480	480	131			480
28.0		N		36		15				132			489
29.0		O		37	H13					133			501

NOTE: This bushing chart does not represent recommended charge weights. It is intended only as a guide to the approximate weight of powder which will be dropped by the listed bushing. It is essential that charges being dropped are weighed on each occasion a loading machine is used.

No data on this page.



Pistol Data

This section shows the maximum load for every configuration of pistol, bullet weight and powder type. It also shows the recommended starting load for some configurations. Pressure variations, due to different components; weapons; weapon conditions and powder lots, are relatively greater for pistols than for rifles. Therefore, for your first load, use the starting load; if no starting load is shown, it is essential that you use 20% less than the maximum load.

To work up to your safe load, increase the starting load by no more than 2% at a time.

The pistol loads shown are for jacketed projectiles unless otherwise specified.
NEVER EXCEED THE MAXIMUM RECOMMENDED LOADS.

PISTOL DATA

PISTOL

Introduction

The pistol data for this edition was developed through the use of pressure/proof barrels. All loads for standard cartridges adhere to the guidelines provided by the Sporting Arms and Ammunition Manufacturers Institute (SAAMI). For data on obsolete or less popular cartridges where a pressure/proof barrel was not available, maximum loads were obtained by firings in actual firearms while noting visual case head signs such as flat or cratered primers, difficult extraction and measured case heads.

Velocity

Velocities for all cartridges listed are limited by the SAAMI maximum allowable pressures. Minimum loads are also established by pressure. Loads with very low pressure may fail to function in very cold weather, resulting in a projectile becoming lodged in the bore (please see the Warnings section of this guide).

The average loss in velocity from the listed pressure/proof barrel data when using a 4 5/8" barrelled revolver is 175 fps. A 7 1/2 inch revolver will lose approximately 50 fps.

Velocity is measured electronically with the use of two infrared sightscreens. The screens measure the time taken for the projectile to pass through the screens. Screens are set at 20 feet apart with the first screen positioned 5 feet from the muzzle.

Pressure

Pressures are listed in either copper units of pressure (cup) or pounds per square inch (psi). Copper units of pressure (cup) is determined mechanically using a copper slug called a "crusher". The crusher is placed in a fixture over the chamber where a hole passes through the barrel to the chamber. When the cartridge is fired, the resulting gases cause the "crusher" to flatten. The "crusher" is then measured and the result is then converted to pressure in by comparing to a target table.

PSI is measured electronically with the use of a pressure transducer. The pressure transducer rests against the cartridge when loaded in the chamber. When the cartridge is fired, the gases cause the brass to expand against the pressure transducer.

Loading Instructions

When working up a load, the reloader should always begin with the starting load, advance in small increments, watch for pressure signs and begin again if changing components. Generally, the best powder choice is the powder, which most fills the case for the intended velocity while still remaining clean burning. Most cartridges have only a certain number of appropriate powders. Those cartridges that are more versatile can use a wider range of propellant burning rates. For others, lesser numbers of propellants will give optimum results.

Most often, slower burning powders are more suitable with heavy bullets, while faster powders are better with lighter projectiles. Most reloaders like a powder that delivers near maximum or maximum results throughout the range of projectiles, but that is not always obtainable, since some cartridges have too wide a range of bullets for any one burning rate to be ideal.

The handloader that seriously loads for any given cartridge will choose different components (primer, powders, projectiles, cases) in varying combinations to obtain the best overall performance and accuracy. The handloader reloads to save money, but also reloads to improve accuracy and performance, creating special loads he cannot find on the dealers' shelves.

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.17 Bumble Bee 10" Barrel								
	25	AR2205	6.0	2,033	-	7.0	2,331	-
.22 Hornet (TCU) 10" Barrel								
	45	AR2205	-	-	-	11.0	2,250	-
.22 Remington Jet (TCU) 10" Barrel								
	40	AP100	-	-	-	8.0	1,800	-
	40	AR2205	-	-	-	13.0	2,400	-
	45	AP100	-	-	-	7.5	1,700	-
	45	AR2205	-	-	-	12.5	2,300	-
.221 Remington Fireball 10 3/4" Barrel								
	40	AR2205	15.5	2,925	-	17.0	3,033	-
	45	AR2205	15.0	2,592	-	16.0	2,697	-
	45	AR2207	16.0	2,451	-	17.0	2,632	-
	50	AR2205	15.0	2,582	-	16.0	2,672	-
	50	AR2207	15.5	2,412	-	16.5	2,539	-
	53	AR2205	15.0	2,449	-	16.0	2,603	-
	53	AR2207	15.5	2,343	-	16.5	2,537	-
	55	AR2205	14.5	2,418	-	15.5	2,503	-
	55	AR2207	15.0	2,261	-	16.0	2,441	-
	60	AR2205	14.0	2,328	-	15.0	2,414	-
	60	AR2207	15.0	2,251	-	16.0	2,399	-
.222 Remington (TCU) 10" Barrel								
	45	AR2207	-	-	-	20.5	2,575	-
	50	AR2207	-	-	-	20.0	2,525	-
	52-53	AR2207	-	-	-	19.6	2,425	-
	55	AR2207	-	-	-	19.2	2,325	-
.25 ACP 2" Barrel								
	35	AP70N	1.5	823	14,500 cup	1.7	922	16,200 cup
	50	AP50N	-	-	-	1.2	750	-
	50	AP70N	1.2	620	12,000 cup	1.4	751	16,600 cup
.256 Winchester Magnum 10" Barrel								
	60	AR2205	15.0	2,156	-	16.0	2,386	-
	60	AR2207	-	-	-	18.0	1,704	-
	75	AR2205	14.0	2,026	-	15.0	2,120	-
	87	AR2205	13.0	1,798	-	14.0	2,040	-
	87	AR2207	-	-	-	15.0	2,007	-
7mm (TCU) 14" Barrel								
	100	AR2207	22.0	2,007	-	24.0	2,176	-
	120	AR2205	16.0	1,662	-	18.0	1,914	-
	120	AR2207	21.0	1,880	-	23.0	2,075	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm (TCU) 14" Barrel (cont)								
	130	AR2205	15.0	1,490	-	17.0	1,675	-
	130	AR2207	20.0	1,745	-	22.0	1,935	-
	139	AR2205	14.5	1,441	-	16.5	1,635	-
	139	AR2207	19.0	1,717	-	21.0	1,904	-
	150	AR2205	14.0	1,404	-	16.0	1,597	-
	150	AR2207	18.5	1,640	-	20.5	1,835	-
	162	AR2205	13.0	1,314	-	15.0	1,474	-
	154-162	AR2207	17.5	1,519	-	19.5	1,729	-
	168	AR2207	-	-	-	18.5	1,699	-
	175	AR2207	-	-	-	18.0	1,522	-
7mm BR Remington 14" Barrel								
	100	AR2207	24.0	2,222	-	26.0	2,429	-
	120	AR2207	22.5	2,067	-	24.5	2,250	-
	139	AR2207	21.0	1,829	-	23.0	1,977	-
	150	AR2207	20.5	1,777	-	22.0	1,882	-
	160	AR2207	20.0	1,656	-	22.0	1,805	-
	168	AR2207	-	-	-	21.0	1,799	-
	175	AR2207	-	-	-	20.0	1,684	-
7mm-08 (Silhouette) 15" Barrel								
	100	AR2208	42.0	2,636	40,800 cup	45.7	2,931	49,600 cup
	130	AR2208	40.0	2,460	43,400 cup	43.5	2,710	50,100 cup
	139	AR2208	40.5	2,436	44,700 cup	43.5	2,612	50,000 cup
	139	AR2209	47.0	2,408	40,400 cup	50.0C	2,581	47,500 cup
	150	AR2208	38.5	2,345	42,400 cup	41.3	2,508	50,000 cup
	150	AR2209	45.0	2,333	42,000 cup	48.5C	2,552	50,300 cup
	162	AR2208	38.5	2,312	43,400 cup	41.0	2,468	49,800 cup
	162	AR2209	45.0	2,302	42,600 cup	48.0C	2,472	49,800 cup
	168	AR2208	37.5	2,231	44,600 cup	40.0	2,380	50,100 cup
	168	AR2209	44.5	2,255	42,600 cup	47.2C	2,404	50,000 cup
	175	AR2208	35.0	2,134	43,400 cup	37.5	2,236	49,500 cup
	175	AR2209	42.0	2,152	41,900 cup	45.0C	2,325	49,900 cup
.30 Luger (7.65mm Parabellum) 4 1/2" Barrel								
	85	AP50N	-	-	-	4.0	1,000	-
	95	AP50N	-	-	-	3.8	925	-
.30 M1 Carbine (pistol) 7" Barrel								
	85	AR2205	14.5	1,643	25,200 cup	15.5C	1,745	30,700 cup
	100	AR2205	13.0	1,503	28,900 cup	14.5C	1,621	33,600 cup
	110	AR2205	13.0	1,461	30,100 cup	14.5C	1,602	38,800 cup

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.30 Herrett 10" Barrel								
	100	AR2205	-	-	-	23.0	2,360	-
	110	AR2205	20.0	2,139	-	22.0	2,321	-
	125	AR2205	18.0	1,824	-	20.0	2,004	-
	130	AR2205	17.0	1,722	-	19.0	1,960	-
	150	AR2205	16.0	1,503	-	18.0	1,752	-
	150	AR2207	19.0	1,623	-	22.0	1,797	-
	165	AR2207	-	-	-	18.5	1,710	-
.30 Mauser (7.6mm Mauser) 5 1/2" Barrel								
	85	AP50N	-	-	-	4.5	1,225	-
	95	AP50N	-	-	-	3.8	1,100	-
.30-30 Winchester (TCU) 14" Barrel								
	130	AR2208	32.5	1,988	30,200 cup	36.0C	2,238	35,700 cup
	150	AR2208	31.0	1,907	31,100 psi	34.5	2,119	36,200 cup
	170	AR2208	29.5	1,806	30,200 cup	33.0	2,023	36,500 cup
.32 ACP (7.65mm Browning) 4" Barrel								
	71	AS30N	1.5	745	11,700 cup	1.7	830	15,000 cup
	71	AP70N	2.2	781	11,600 cup	2.4	881	14,900 cup
.32 Smith & Wesson 4" Barrel								
	85	AS30N	-	-	-	1.2	600	-
	85	AP50N	-	-	-	1.4	650	-
	85	AP70N	-	-	-	1.8	730	-
.32 Smith & Wesson Long 5.32" Barrel								
	85	AP70N	2.7	705	8,000 cup	3.0	865	12,000 cup
L	90	AP70N	2.4	777	8,800 cup	2.7	844	10,200 cup
	90	AP70N	2.6	676	7,500 cup	2.9	838	11,200 cup
L	98	AP70N	1.9	675	6,100 cup	2.2	830	11,000 cup
.32 H & R Magnum 5" Barrel								
	85	AP70N	4.0	1,090	18,400 cup	4.3	1,123	19,000 cup
	85	AR2205	8.5	989	19,300 cup	9.5	1,151	21,000 cup
L	90	AP70N	3.0	819	8,400 cup	3.2	908	11,500 cup
	90	AP70N	3.7	1,008	16,900 cup	4.0	1,072	20,000 cup
	90	AR2205	9.5	1,042	15,000 cup	10.0	1,079	17,000 cup
	100	AP70N	3.3	847	14,300 cup	3.7	973	19,900 cup
	100	AR2205	9.0	980	15,700 cup	10.0	1,060	19,300 cup
.32-20 WCF (Pistol) 5 1/2" Barrel								
L	115	AP70N	3.0	808	14,200 cup	3.2	869	16,000 cup
.380 Auto (9mm Kurz) 3 3/4" Barrel								
	90	AP50N	-	-	-	3.0	800	-
	90	AP70N	-	-	-	3.6	955	-

C = Compressed Loads: L = Lead Projectile

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.380 Auto (9mm Kurz) 3 3/4" Barrel (cont)								
	90	AP100	-	-	-	5.1	850	-
	100	AP50N	-	-	-	2.8	725	-
	100	AP70N	-	-	-	3.4	889	-
	100	AP100	-	-	-	4.7	775	-
	115	AP50N	-	-	-	2.3	725	-
	115	AP70N	-	-	-	2.6	725	-
	115	AP100	-	-	-	4.4	750	-
9mm Luger (9mm Parabellum) 4" Barrel								
	90	AP70N	-	-	-	5.5	1,266	30,100 cup
	100	AP70N	-	-	-	5.3	1,212	31,500 cup
	115	AP70N	-	-	-	5.0	1,149	31,200 cup
L	120	AP50N	-	-	-	3.5	1,075	-
L	120	AP100	-	-	-	6.0	1,180	-
	124	AP70N	-	-	-	4.9	1,118	30,600 cup
L	125	AP50N	-	-	-	3.2	1,000	-
L	125	AP70N	-	-	-	3.8	1,055	-
L	125	AP100	-	-	-	6.2	1,135	-
	130	AP70N	-	-	-	4.7	1,058	30,400 cup
L	135	AP50N	-	-	-	3.3	955	-
L	135	AP70N	-	-	-	4.2	1,050	-
L	135	AP100	-	-	-	6.0	1,100	-
	147	AP70N	-	-	-	3.3	869	-
.38 ACP 3.75" Barrel								
L	90	AP70N	-	-	-	3.6	955	-
L	95	AP70N	-	-	-	3.5	901	-
L	100	AP70N	-	-	-	3.4	889	-
.38 Super Auto 5" Barrel								
	90	AP70N	-	-	-	6.3	1,352	-
	100	AP70N	-	-	-	6.0	1,327	-
	115	AP70N	-	-	-	5.5	1,225	-
L	115	AP100	6.0	1,010	19,630 psi	8.0	1,425	34,505 psi
L	125	AP70N	-	-	-	5.3	1,171	-
	125	AP70N	-	-	-	5.5	1,179	-
L	125	AP100	7.0	1,260	23,150 psi	8.0	1,415	36,450 psi
	130	AP70N	-	-	-	5.3	1,124	-
L	135	AP100	6.0	1,055	23,800 psi	7.5	1,325	36,300 psi
	147	AP70N	-	-	-	4.8	1,017	-
.38 Smith & Wesson 4" Barrel								
	110	AP50N	-	-	-	3.5	1,000	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.38 Smith & Wesson 4" Barrel (cont)								
	110	AP70N	-	-	-	4.1	1,000	-
	125	AP50N	-	-	-	3.4	950	-
	125	AP70N	-	-	-	4.0	950	-
L	148	AP50N	-	-	-	2.9	750	-
L	148	AP70N	-	-	-	3.4	750	-
L	148	AP100	-	-	-	4.3	750	-
L	158	AP50N	-	-	-	2.8	700	-
L	158	AP70N	-	-	-	3.3	700	-
L	158	AP100	-	-	-	4.1	700	-
.38 Special 7.7" Barrel								
	110	AS30N	4.0	1,002	14,400 cup	4.2	1,073	17,000 cup
	110	AP70N	5.0	968	11,800 cup	5.6	1,143	16,700 cup
L	125	AS30N	2.5	810	8,400 cup	3.5	978	16,900 cup
	125	AS30N	3.5	843	12,400 cup	3.9	937	16,100 cup
L	125	AP70N	4.3	872	8,700 cup	4.7	1,036	16,800 cup
	125	AP70N	4.7	918	12,600 cup	5.2	1,019	17,000 cup
L	135	AS30N	2.6	767	11,400 cup	3.3	910	16,200 cup
L	135	AP50N	2.8	645	9,450 psi	3.5	845	16,850 psi
L	138	AP50N	3.0	710	10,100 psi	3.5	835	17,500 psi
L	135	AP70N	4.1	924	13,400 cup	4.6	1,025	16,900 cup
	140	AS30N	3.0	703	13,400 cup	3.7	869	16,700 cup
	140	AP70N	4.3	832	12,400 cup	4.8	939	15,400 cup
	146	AP70N	4.0	788	11,100 cup	4.5	933	16,100 cup
	146	AR2205	9.6	908	12,600 cup	10.7	979	15,700 cup
L	148	AS30N	2.3	784	10,900 cup	2.5	836	13,200 cup
L	148	AP50N	2.8	650	10,100 psi	3.2	755	13,000 psi
L	148	AP70N	2.9	709	7,400 cup	3.8	940	15,600 cup
L	158	AS30N	2.8	812	12,900 cup	3.1	871	15,100 cup
	158	AS30N	3.0	633	13,400 cup	3.1	721	16,600 cup
L	158	AP50N	3.2	660	8,200 psi	3.8	800	16,600 psi
L	158	AP70N	3.5	756	9,600 cup	4.5	974	16,700 cup
	158	AP70N	4.0	678	12,600 cup	4.4	778	16,200 cup
L	158	AR2205	9.0	887	12,100 cup	10.0	983	15,700 cup
	158	AR2205	9.0	769	12,400 cup	10.0	864	15,500 cup
	170	AP70N	3.8	744	14,100 cup	4.2	823	16,100 cup
	170	AR2205	8.8	762	12,900 cup	9.8	888	15,900 cup
.38 Special + P 7.7" Barrel								
	110	AP70N	-	-	-	6.0	1,204	18,700 cup
	125	AP70N	-	-	-	5.4	1,072	18,900 cup

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			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.38 Special + P 7.7" Barrel (cont)								
	140	AP70N	-	-	-	5.1	1,022	19,100 cup
	140	AR2205	-	-	-	12.4	1,121	19,400 cup
	146	AP70N	-	-	-	4.7	987	18,100 cup
	146	AR2205	-	-	-	12.0	1,085	18,400 cup
	158	AP70N	-	-	-	4.7	837	19,200 cup
	158	AR2205	-	-	-	11.0	964	17,600 cup
	170	AP70N	-	-	-	4.3	847	18,600 cup
	170	AR2205	-	-	-	10.6	950	17,600 cup
WARNING : 38 Special + P Loads are for use in modern arms (not aluminium frame) in good condition.								
.357 SIG 4" Barrel								
	90	AP70N	7.2	1,428	27,000 psi	8.1	1,578	36,900 psi
	115	AP70N	6.5	1,272	31,600 psi	7.3	1,375	39,200 psi
	124	AP70N	6.0	1,178	28,600 psi	6.7	1,276	35,900 psi
	135	AP70N	5.8	1,094	29,400 psi	6.5	1,198	37,700 psi
	147	AP70N	5.0	1,026	29,200 psi	5.6	1,110	38,600 psi
.357 Magnum 10" Barrel								
	110	AP70N	7.5	1,465	35,100 cup	8.0	1,536	40,000 cup
	110	AR2205	18.9	1,774	29,600 cup	21.0	1,900	35,500 cup
L	125	AS30N	3.5	984	11,900 cup	5.3	1,260	33,000 cup
L	125	AP70N	4.8	1,046	11,000 cup	6.8	1,401	34,200 cup
	125	AP70N	7.1	1,394	34,900 cup	7.6	1,453	39,600 cup
	125	AR2205	18.0	1,692	34,400 cup	20.0	1,839	42,000 cup
L	135	AS30N	3.4	914	12,200 cup	5.1	1,207	30,200 cup
L	135	AP50N	4.0	870	16,700 psi	5.2	1,065	31,900 psi
L	135	AP70N	4.8	986	11,700 cup	6.5	1,314	27,800 cup
L	138	AP50N	4.0	855	13,650 psi	5.0	1,050	33,650 psi
	140	AP70N	6.5	1,218	34,800 cup	7.0	1,299	40,200 cup
	140	AR2205	16.2	1,541	33,100 cup	18.0	1,685	42,600 cup
	146	AP70N	6.0	1,160	33,500 cup	6.5	1,261	39,900 cup
	146	AR2205	14.5	1,440	34,300 cup	16.0	1,566	42,700 cup
L	148	AP50N	4.0	835	12,650 psi	5.0	1,005	28,500 psi
L	148	AP70N	3.5	880	13,700 cup	4.0	989	17,700 cup
L	150	AP50N	4.0	800	13,270 psi	5.0	960	23,870 psi
	150	AP70N	6.2	1,184	32,800 cup	6.7	1,255	39,900 cup
	150	AR2205	15.0	1,485	33,100 cup	16.5	1,583	36,700 cup
L	158	AS30N	3.2	867	14,400 cup	4.6	1,079	33,600 cup
L	158	AP50N	5.0	925	21,800 psi	5.8	1,030	33,000 psi
L	158	AP70N	4.0	890	15,700 cup	6.2	1,247	33,400 cup
	158	AP100	8.7	1,065	28,200 psi	9.0	1,075	34,100 psi

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.357 Magnum 10" Barrel (cont)								
	158	AP70N	5.8	1,026	32,100 cup	6.3	1,133	39,300 cup
	158	AR2205	14.5	1,402	34,600 cup	16.0	1,520	42,600 cup
	170	AR2205	13.0	1,272	32,300 cup	14.5	1,395	41,200 cup
	180	AP100	7.0	770	16,350 psi	8.2	965	34,200 psi
	180	AR2205	12.7	1,247	36,900 cup	13.7	1,308	40,900 cup
.357 Remington Maximum 10" Barrel								
	110	AR2205	26.0	2,120	-	28.0	2,314	-
	125	AR2205	25.0	1,968	-	27.0	2,126	-
	140	AR2205	22.0	1,866	-	24.0	1,985	-
	150	AR2205	21.0	1,788	-	23.0	1,923	-
	160	AR2205	20.5	1,709	-	22.5	1,814	-
	170	AR2205	19.0	1,638	-	21.0	1,748	-
	180	AR2205	18.0	1,551	-	20.0	1,645	-
	200	AR2205	16.0	1,280	-	18.0	1,440	-
.357 Herrett (TCU) 10" Barrel								
	110	AR2205	-	-	-	33.0	2,380	-
	125	AR2205	-	-	-	32.0	2,329	-
	140	AR2205	-	-	-	30.0	2,198	-
	150	AR2205	-	-	-	29.0	2,142	-
	158	AR2205	-	-	-	28.0	2,022	-
.375 JDJ 14" Barrel								
	220	AR2207	39.0	1,904	-	44.0	2,115	-
.38/40 Winchester 5 1/2" Barrel								
L	180	AS30N	4.7	760	8,700 psi	5.5	889	13,500 psi
L	180	AP70N	6.9	813	8,200 psi	7.5	955	11,900 psi
.40 Smith & Wesson 4" Barrel								
	135	AS30N	-	-	-	4.5	1,071	32,900 psi
	135	AP70N	-	-	-	7.5	1,324	32,500 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	140	AS30N	-	-	-	4.0	1,035	-
L	140	AP50N	-	-	-	4.5	1,105	-
L	140	AP70N	-	-	-	5.5	1,145	-
L	155	AS30N	-	-	-	4.0	970	-
	155	AS30N	-	-	-	4.0	942	30,900 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	155	AP50N	-	-	-	4.6	1,015	-
L	155	AP70N	-	-	-	5.6	1,100	-
	155	AP70N	-	-	-	6.6	1,186	33,200 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								

PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
40 Smith & Wesson 4" Barrel (cont)								
L	155	AP100	-	-	-	8.1	1,180	-
L	170	AS30N	-	-	-	3.4	865	-
L	170	AP50N	-	-	-	3.8	895	-
L	170	AP70N	-	-	-	4.8	1,005	-
L	170	AP100	-	-	-	6.9	1,070	-
	180	AS30N	-	-	-	3.5	847	34,300 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	180	AP70N	-	-	-	4.8	1,010	-
	180	AP70N	-	-	-	5.8	1,046	33,400 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	180	AP100	-	-	-	6.7	1,065	-
	200	AP70N	-	-	-	4.7	903	33,600 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
10mm Auto 5" Barrel								
	135	AP70N	-	-	-	8.0	1,416	36,100 psi
	155	AP70N	-	-	-	7.5	1,279	35,200 psi
	170	AP70N	-	-	-	6.7	1,187	36,100 psi
	180	AP70N	-	-	-	6.4	1,122	32,200 psi
	200	AP70N	-	-	-	5.9	1,015	36,900 psi
.41 Action Express 5" Barrel								
	150	AP70N	-	-	-	6.5	1,025	-
L	150	AP70N	-	-	-	6.3	1,125	-
	150	AP100	-	-	-	9.2	1,075	-
L	150	AP100	-	-	-	9.0	1,200	-
	170	AP70N	-	-	-	5.1	900	-
L	170	AP70N	-	-	-	4.9	1,000	-
	170	AP100	-	-	-	6.7	925	-
L	170	AP100	-	-	-	6.5	1,050	-
L	200	AP70N	-	-	-	4.4	875	-
L	200	AP100	-	-	-	6.0	925	-
.41 Magnum 10.125" Barrel								
	170	AP70N	-	-	-	10.3	1,488	-
	170	AR2205	-	-	-	24.9	1,745	-
	210	AP70N	-	-	-	8.9	1,243	-
	210	AR2205	-	-	-	21.5	1,518	-
	220	AP70N	-	-	-	8.5	1,178	-
	220	AR2205	-	-	-	20.0	1,433	-
L	245	AP70N	-	-	-	8.0	1,164	-
L	245	AR2205	-	-	-	20.0	1,444	-

PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.44/40 Winchester 7" Barrel								
L	200	AS30N	4.2	648	8,200 psi	5.0	765	11,700 psi
	200	AP50N	5.5	755	4,200 psi	6.5	920	8,900 psi
	200	AP70N	6.6	722	10,000 psi	7.3	777	11,100 psi
	200	AR2205	16.0	810	10,100 psi	18.0	910	11,350 psi
	200	AR2205	18.0	885	7,500 psi	20.0	1,030	12,900 psi
	215	AP50N	5.3	765	4,450 psi	6.4	940	13,800 psi
.44 Special 8" Barrel								
L	165	AS30N	-	-	-	4.6	1,009	-
	165	AP70N	-	-	-	6.3	1,042	-
L	185	AS30N	-	-	-	4.2	930	-
	185	AP70N	-	-	-	6.4	1,031	-
L	200	AS30N	-	-	-	4.5	891	-
	200	AP70N	-	-	-	6.5	960	-
L	200	AP70N	-	-	-	6.8	967	-
	200	AR2205	-	-	-	15.0	1,051	-
L	200	AR2205	-	-	-	15.0	1,021	-
	240	AS30N	-	-	-	4.0	771	-
L	240	AP70N	-	-	-	5.6	873	-
	240	AR2205	-	-	-	13.2	947	-
.44 Remington Magnum 8.275" Barrel								
L	165	AS30N	-	-	-	5.5	1,064	-
	165	AP70N	-	-	-	7.2	1,059	-
L	180	AP70N	-	-	-	11.3	1,463	-
	180	AR2205	-	-	-	29.0	1,708	-
L	185	AS30N	-	-	-	6.0	1,043	-
	185	AP70N	-	-	-	7.4	1,070	-
L	200	AS30N	-	-	-	6.4	1,028	-
	200	AP70N	-	-	-	7.8	1,045	-
L	200	AP70N	-	-	-	11.1	1,398	-
	200	AR2205	-	-	-	27.0	1,686	-
L	210	AP70N	-	-	-	11.0	1,365	-
	210	AR2205	-	-	-	27.0	1,624	-
L	225	AP70N	-	-	-	10.5	1,291	-
	225	AR2205	-	-	-	25.5	1,537	-
L	240	AS30N	-	-	-	6.2	940	-
	240	AP50N	5.5	835	15,280 psi	8.5	1,130	31,955 psi
L	240	AP70N	-	-	-	10.2	1,276	-
L	240	AP100	11.0	1,110	18,585 psi	13.5	1,370	32,850 psi
L	240	AR2205	23.0	1,345	24,140 psi	25.0	1,480	30,010 psi

C = Compressed Loads: L = Lead Projectile

PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.44 Remington Magnum 8.275" Barrel (cont)								
	240	AP70N	-	-	-	10.2	1,246	-
	240	AR2205	-	-	-	24.0	1,458	-
	270	AP70N	-	-	-	9.5	1,128	-
	270	AR2205	-	-	-	22.5	1,425	-
	280	AP70N	-	-	-	9.7	1,090	-
	280	AR2205	-	-	-	22.0	1,373	-
	300	AP70N	-	-	-	9.6	1,113	-
	300	AR2205	-	-	-	20.0	1,312	-
.44 Magnum (TCU) 14" Barrel								
	180	AP100	-	-	-	19.0	1,750	-
	180	AR2205	-	-	-	28.5	1,825	-
	200	AP100	-	-	-	18.5	1,700	-
	200	AR2205	-	-	-	27.0	1,750	-
	225	AP100	-	-	-	17.2	1,675	-
	225	AR2205	-	-	-	25.0	1,675	-
	240	AP100	-	-	-	16.5	1,625	-
	240	AR2205	-	-	-	23.5	1,625	-
	265	AP100	-	-	-	15.5	1,450	-
	265	AR2205	-	-	-	22.0	1,475	-
.44 Auto Magnum 6" Barrel								
	180	AR2205	-	-	-	27.0	1,478	-
	200	AR2205	-	-	-	26.0	1,427	-
	225	AR2205	-	-	-	22.0	1,269	-
	240	AR2205	-	-	-	21.0	1,183	-
.45 ACP 5" Barrel								
L	150	AP50N	4.5	930	12,940 psi	5.4	1,090	19,170 psi
L	150	AP70N	6.5	1,050	16,120 psi	7.2	1,185	20,645 psi
L	150	AP70N	7.5	950	14,290 psi	8.7	1,160	19,490 psi
L	150	AP100	8.5	970	14,870 psi	9.5	1,165	20,395 psi
L	155	AS30N	-	-	-	5.2	1,080	-
L	155	AP50N	5.0	940	9,200 psi	6.2	1,175	20,400 psi
L	155	AP70N	-	-	-	7.6	1,195	-
L	175	AP50N	4.5	845	12,015 psi	5.5	1,020	17,935 psi
L	175	AP70N	6.0	880	13,080 psi	7.2	1,105	19,320 psi
	185	AS30N	-	-	-	4.9	981	17,400 cup
	185	AP50N	4.5	800	8,000 psi	5.8	1,030	20,100 psi
	185	AP70N	-	-	-	7.2	993	17,000 cup
	200	AS30N	-	-	-	4.3	785	17,700 cup
L	200	AS30N	-	-	-	4.3	888	17,000 cup

PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.45 ACP 5" Barrel (cont)								
	L 200	AP50N	4.0	755	11,050 psi	5.0	960	21,000 psi
	L 200	AP70N	-	-	-	6.5	1,020	-
	200	AP70N	-	-	-	6.7	930	17,200 cup
	230	AS30N	-	-	-	4.0	732	17,000 cup
	230	AP70N	-	-	-	6.0	853	16,900 cup
	L 230	AP50N	3.8	720	9,650 psi	4.5	840	18,050 psi
	L 230	AP70N	-	-	-	6.1	965	-
.45 Colt 7.25" Barrel								
	160	AS30N	-	-	-	6.4	1,083	-
	160	AP70N	-	-	-	9.5	1,197	-
	180	AS30N	-	-	-	6.0	1,016	-
	180	AP70N	-	-	-	9.2	1,161	-
	L 200	AS30N	-	-	-	5.9	931	-
	L 200	AP50N	5.5	750	7,570 psi	7.0	995	12,330 psi
	L 200	AP70N	-	-	-	8.8	1,067	-
	200	AP70N	-	-	-	9.0	1,068	-
	L 215	AS30N	-	-	-	5.7	889	-
	L 215	AP70N	-	-	-	8.6	1,001	-
	230	AS30N	-	-	-	5.4	865	-
	230	AP70N	-	-	-	8.1	975	-
	250	AS30N	-	-	-	5.1	817	-
	250	AP70N	-	-	-	7.8	941	-
	L 255	AP50N	6.0	750	7,850 psi	7.0	895	11,470 psi
	L 255	AP70N	8.0	825	10,300 psi	8.5	905	13,100 psi
	L 255	AP100	11.0	835	10,800 psi	12.0	975	16,650 psi
.45 Winchester Magnum 5" Barrel								
	230	AR2205	-	-	-	25.0	1,259	29,400 cup
	240	AR2205	-	-	-	25.0	1,266	33,000 cup
	250	AR2205	-	-	-	24.0	1,239	37,100 cup
	260	AR2205	-	-	-	23.0	1,209	35,400 cup
.45 Winchester Magnum (TCU) 14" Barrel								
	185	AP100	-	-	-	17.0	1,650	-
	185	AR2205	-	-	-	26.0	1,600	-
	200	AP100	-	-	-	16.4	1,525	-
	200	AR2205	-	-	-	25.0	1,500	-
	230	AP100	-	-	-	15.6	1,425	-
	230	AR2205	-	-	-	24.0	1,400	-
	250	AP100	-	-	-	14.5	1,325	-
	250	AR2205	-	-	-	23.0	1,325	-

PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.454 Casull Magnum 9.37" Barrel								
	240	AP70N	-	-	-	11.5	1,325	-
	240	AR2205	-	-	-	34.0C	1,834	-
	250	AP70N	-	-	-	12.0	1,290	-
	250	AR2205	-	-	-	28.5C	1,685	-
	260	AP70N	-	-	-	11.5	1,245	-
	260	AR2205	-	-	-	33.0C	1,762	-
	300	AR2205	-	-	-	31.0C	1,702	-
.50 Action Express 6" Barrel								
	325	AR2205	-	-	-	30.8	1,294	-



Rifle Data

This section shows the maximum load for every configuration of rifle, bullet weight and powder type. It also shows the recommended starting load for some configurations. For your first load, use the starting load; if no starting load is shown, use 10% less than the maximum load. To work up to your safe load, increase the load by 3% at a time.

The rifle loads shown are for jacketed projectiles unless otherwise specified.

NEVER EXCEED THE MAXIMUM RECOMMENDED LOADS.

RIFLE DATA

RIFLE

Introduction

The rifle data for this edition was developed through the use of pressure/proof barrels. All loads for standard cartridges adhere to the guidelines provided by the Sporting Arms and Ammunition Manufacturers Institute (SAAMI). For data on obsolete or less popular cartridges where a pressure/proof barrel was not available, maximum loads were obtained by firings in actual firearms while noting visual case head signs such as flat or cratered primers, difficult extraction and measured case heads.

Velocity

Velocity is measured electronically with the use of two infrared sightscreens. The screens measure the time taken for the projectile to pass through the screens. Screens are set at 20 feet apart with the first screen positioned 5 feet from the muzzle.

Velocities for all cartridges listed are limited by the SAAMI maximum allowable pressures. The average change in velocity from the listed pressure barrel data is approximately 35 to 50 fps for each inch of barrel length.

Pressure

Where listed, pressures are in pounds per square inch (psi). If no pressure is listed then the pressure was measured mechanically with copper units of pressure (cup). These pressures have not been listed to avoid confusion between the two pressure units.

PSI is measured electronically with the use of a pressure transducer. The pressure transducer rests against the cartridge when loaded into the chamber. When the cartridge is fired, the gases cause the brass to expand against the pressure transducer and the results are measured.

Loading Instructions

When working up a load, the reloader should always begin with the starting load, advance in small increments, watch for pressure signs and begin again if changing components. Generally, the best powder choice is the powder, which most nearly fills the case for the intended velocity. Most cartridges have only a certain number of appropriate powders. Those cartridges that are more versatile can use a wider range of propellant burning rates. For others, lesser numbers of propellants will give optimum results.

Most often, slower burning powders are more suitable with heavy bullets, while faster powders are better with lighter projectiles. Most reloaders like a powder that delivers near maximum or maximum results throughout the range of projectiles, but that is not always obtainable, since some cartridges (like the 30-06) have too wide a range of projectiles for any one burning rate to be ideal.

The handloader that seriously loads for any given cartridge will choose different components (primer, powders, projectiles, cases) in varying combinations to obtain the best overall performance and accuracy. The handloader reloads to save money, but also reloads to improve accuracy and performance, creating special loads that cannot be found on the dealers' shelves.

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
17 Hornet (Ackley) 24" Barrel								
	25	AR2207	10.9	3,015	-	11.6	3,176	-
	25	AR2219	12.0	2,894	-	13.0C	3,153	-
17 Bee (Ackley) 22" Barrel								
	25	AR2205	10.0	2,910	-	11.0	3,131	-
	25	AR2207	12.5	2,976	-	13.5	3,365	-
17 Mach IV 24" Barrel								
	25	AR2207	-	-	-	16.00	3,700	-
	25	AR2206	-	-	-	18.50	3,700	-
17 - 222 22" Barrel								
	25	AR2207	16.2	3,448	-	17.2	3,601	-
	25	AR2206	19.0	3,415	-	20.0	3,625	-
	25	AR2206H	19.5	3,439	-	20.5	3,646	-
	25	AR2208	19.5	3,400	-	21.0	3,600	-
17 Remington 24" Barrel								
	25	AR2207	16.5	3,478	-	18.5	3,900	-
	25	Bench Mark 1	18.5	3,578	-	20.5	3,965	-
	25	AR2219	19.5	3,656	-	21.8	3,921	-
	25	Bench Mark 2	21.5	3,791	-	23.3	4,038	-
	25	AR2206	20.0	3,636	-	22.0	4,000	-
	25	AR2206H	21.0	3,760	-	23.0	4,033	-
	25	AR2208	22.0	3,759	-	24.5	4,123	-
	25	AR2209	23.0	3,396	-	25.5C	3,765	-
17-223 22" Barrel								
	25	AR2206	20.0	3,600	-	22.2	3,950	-
	25	AR2206H	21.0	3,681	-	23.0	3,960	-
	25	AR2208	21.5	3,600	-	23.5	3,995	-
204 Ruger 24" Barrel								
	32	AR2219	25.5	3,826	48,300 psi	27.5	4,030	56,400 psi
	32	Bench Mark 2	26.0	3,770	45,500 psi	28.0	4,047	57,100 psi
	32	AR2206H	27.0	3,669	40,500 psi	29.0C	3,980	51,100 psi
	32	AR2208	27.0	3,557	38,300 psi	29.0C	3,798	47,400 psi
	35	AR2219	24.0	3,586	45,600 psi	26.3	3,828	55,400 psi
	35	Bench Mark 2	25.0	3,590	44,100 psi	26.6	3,863	56,600 psi
	35	AR2206H	26.0	3,576	42,200 psi	28.2C	3,910	55,700 psi
	35	AR2208	28.0	3,705	48,300 psi	29.0C	3,812	53,100 psi
	40	AR2219	23.0	3,319	41,500 psi	25.1	3,639	55,900 psi
	40	Bench Mark 2	24.0	3,419	45,200 psi	25.7	3,646	55,400 psi
	40	AR2206H	26.0	3,500	45,500 psi	27.7C	3,741	56,000 psi
	40	AR2208	26.0	3,395	44,100 psi	28.1C	3,647	55,100 psi

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
204 Ruger 24" Barrel (cont)								
	50	Bench Mark 2	22.0	3,105	48,300 psi	23.5	3,252	55,100 psi
	50		22.5	3,110	47,800 psi	24.0	3,256	54,300 psi
	50		AR2206H	24.0	3,167	46,900 psi	25.7	3,352
	50	AR2208	24.0	3,071	44,900 psi	26.0	3,287	55,200 psi
22 Hornet 24" Barrel								
	35	AR2205	10.5	2,630	-	11.6C	2,896	-
	35	AR2207	10.5	2,223	-	11.5C	2,420	-
	40	AR2205	9.0	2,421	-	10.2	2,567	-
	40	AR2207	10.5	2,253	-	11.5C	2,488	-
	45	AR2205	8.5	2,198	-	9.8	2,346	-
	45	AR2207	10.5	2,217	-	11.5C	2,390	-
	50	AR2205	8.4	2,131	-	9.4	2,256	-
	50	AR2207	10.5	2,102	-	11.5C	2,296	-
	53	AR2205	8.0	1,887	-	8.7	2,062	-
	53	AR2207	10.0	2,025	-	11.0C	2,165	-
	55	AR2205	8.0	1,915	-	9.0	2,095	-
	55	AR2207	10.0	1,955	-	11.5C	2,273	-
22 K Hornet 24" Barrel								
	40	AR2205	-	-	-	11.50	2,900	-
	40	AR2207	-	-	-	12.50	2,900	-
	45	AR2205	-	-	-	11.00	2,750	-
	45	AR2207	-	-	-	12.00	2,750	-
	50	AR2205	-	-	-	10.50	2,600	-
	50	AR2207	-	-	-	11.50	2,600	-
	55	AR2205	-	-	-	10.50	2,400	-
	55	AR2207	-	-	-	11.00	2,400	-
218 Bee 26" Barrel								
	40	AR2205	-	-	-	12.00	2,760	-
	40	AR2207	-	-	-	14.00	2,792	-
	45	AR2207	-	-	-	14.00	2,779	-
	50	AR2207	-	-	-	13.50	2,582	-
	55	AR2207	-	-	-	13.50	2,567	-
222 Remington 24" Barrel								
	40	AR2205	12.0	2,547	-	15.0	3,040	-
	40	AR2207	19.5	3,201	-	21.4	3,480	-
	40	Bench Mark 1	20.5	3,121	-	22.5	3,425	-
	40		AR2219	20.7	2,966	-	23.0	3,313
	40	Bench Mark 2	23.5	3,110	-	25.0	3,303	-
	40		AR2206	21.5	2,835	-	24.0C	3,165

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
222 Remington 24" Barrel (cont)								
	40	AR2206H	20.0	2,572	-	24.0C	3,133	-
	40	AR2208	22.5	2,875	-	25.0C	3,195	-
	45	AR2205	11.0	2,259	-	14.5	2,863	-
	45	AR2207	18.9	3,011	-	21.0	3,315	-
	45	Bench Mark 1	20.0	2,914	-	22.0	3,205	-
	45	AR2219	20.5	2,914	-	22.5	3,173	-
	45	Bench Mark 2	23.0	3,092	-	24.5	3,290	-
	45	AR2206H	20.0	2,510	-	23.8C	3,080	-
	50	AR2205	10.5	2,124	-	13.8	2,668	-
	50	AR2207	18.5	2,890	-	20.5	3,160	-
	50	Bench Mark 1	20.0	2,868	-	22.0	3,155	-
	50	AR2219	20.2	2,810	-	22.2	3,079	-
	50	Bench Mark 2	22.5	2,994	-	24.0	3,168	-
	50	AR2206	20.0	2,609	-	23.5	3,065	-
	50	AR2206H	20.0	2,466	-	23.8C	3,022	-
	50	AR2208	23.0	2,884	-	25.0C	3,114	-
	53	AR2205	15.5	2,726	-	17.0	2,990	-
	53	AR2207	17.5	2,800	-	19.5	3,038	-
	53	Bench Mark 1	19.1	2,690	-	21.3	3,000	-
	53	AR2219	19.3	2,724	-	21.5	3,005	-
	53	Bench Mark 2	21.5	2,852	-	23.0	3,063	-
	53	AR2206H	20.0	2,585	-	23.5C	3,043	-
	53	AR2208	23.0	2,863	-	25.0C	3,097	-
	55	AR2207	17.5	2,733	-	19.5	3,017	-
	55	Bench Mark 1	19.0	2,674	-	21.0	2,955	-
	55	AR2219	19.0	2,654	-	21.2	2,953	-
	55	Bench Mark 2	21.5	2,843	-	23.2	3,052	-
	55	AR2206	21.5	2,768	-	23.5C	3,025	-
	55	AR2206H	20.0	2,569	-	23.5C	3,023	-
	55	AR2208	23.0	2,860	-	25.0C	3,095	-
	63	AR2207	16.9	2,597	-	18.8	2,793	-
	63	Bench Mark 1	18.5	2,520	-	20.3	2,765	-
	63	AR2219	18.6	2,531	-	20.7	2,780	-
	63	Bench Mark 2	21.0	2,732	-	22.5	2,903	-
	63	AR2206	20.5	2,607	-	23.0	2,925	-
	63	AR2206H	20.0	2,537	-	23.5C	2,965	-
	63	AR2208	22.0	2,718	-	24.0C	2,935	-
223 Remington (5.56mm x 45) 24" Barrel								
	40	AR2205	18.0	3,191	-	20.0	3,545	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
223 Remington (5.56mm x 45) 24" Barrel (cont)								
	40	AR2207	20.5	3,147	-	22.5	3,601	-
	40	Bench Mark 1	22.5	3,179	-	25.2	3,560	-
	40	AR2219	23.5	3,376	-	25.5	3,574	-
	40	Bench Mark 2	25.3	3,404	-	27.3	3,666	-
	40	AR2206	24.8	3,238	-	27.5C	3,590	-
	40	AR2206H	25.0	3,204	-	27.5C	3,573	-
	40	AR2208	25.0	3,310	-	28.0C	3,674	-
	50	AR2207	19.5	3,023	-	21.5	3,223	-
	50	Bench Mark 1	21.5	2,981	-	23.8	3,300	-
	50	AR2219	22.0	3,018	-	24.0	3,301	-
	50	Bench Mark 2	24.0	3,139	-	26.5	3,396	-
	50	AR2206	24.0	3,129	-	26.5C	3,455	-
	50	AR2206H	25.0	3,200	-	27.5C	3,468	-
	50	AR2208	26.5	3,242	-	27.5C	3,383	-
	53	AR2207	19.5	2,986	-	21.5	3,188	-
	53	Bench Mark 1	21.0	2,890	-	23.0	3,165	-
	53	AR2219	21.5	2,912	-	23.5	3,183	-
	53	Bench Mark 2	24.0	3,102	-	26.0	3,308	-
	53	AR2206	24.0	3,048	-	26.5	3,365	-
	53	AR2206H	25.0	3,166	-	27.0C	3,383	-
	53	AR2208	24.0	3,026	-	27.0C	3,389	-
	55	AR2207	19.0	2,841	-	21.0	3,150	-
	55	Bench Mark 1	20.5	2,717	-	22.6	2,995	-
	55	AR2219	21.0	2,841	-	23.0	3,106	-
	55	Bench Mark 2	24.0	3,113	-	25.6	3,264	-
	55	AR2206	24.5	3,132	-	25.5	3,260	-
	55	AR2206H	25.0	3,176	-	26.0	3,315	-
	55	AR2208	25.5	3,174	-	27.5C	3,384	-
	62	Bench Mark 2	21.2	2,706	-	23.5	3,000	-
	62	AR2206	22.0	2,761	-	24.5	3,075	-
	62	AR2208	22.5	2,749	-	25.0	3,055	-
1 in 10 twist or faster required for this projectile.								
	69	AR2219	21.0	2,746	-	23.0	2,932	-
	69	Bench Mark 2	21.5	2,770	-	23.5	2,970	-
	69	AR2206	22.0	2,677	-	24.0	2,920	-
	69	AR2206H	24.0	2,870	-	26.0C	3,069	-
	69	AR2208	24.0	2,784	-	26.0C	3,010	-
1 in 10 twist or faster required for this projectile.								
	80	AR2219	20.0	2,546	-	22.0	2,744	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
223 Remington (5.56mm x 45) 24" Barrel (cont)								
	80	Bench Mark 2	20.5	2,525	-	22.5	2,700	-
	80	AR2206	20.5	2,500	-	22.5	2,710	-
	80	AR2206H	21.5	2,578	-	24.0	2,825	-
	80	AR2208	22.0	2,547	-	25.0	2,869	-
1 in 8 twist or faster required for this projectile.								
222 Remington Magnum 26" Barrel								
	40	AR2205	15.5	2,714	-	17.0	3,062	-
	40	AR2207	23.0	3,592	-	24.5	3,760	-
	40	AR2219	25.0	3,318	-	27.0	3,622	-
	40	AR2206H	26.5	3,363	-	29.0	3,490	-
	45	AR2207	22.0	3,392	-	24.0	3,641	-
	45	AR2219	24.5	3,159	-	26.5	3,532	-
	45	AR2206H	26.5	3,314	-	29.0	3,442	-
	50	AR2207	21.5	3,147	-	23.5	3,379	-
	50	AR2219	24.0	3,128	-	26.0	3,385	-
	50	AR2206H	26.0	3,166	-	28.5	3,306	-
	53	AR2207	21.0	3,076	-	23.0	3,282	-
	53	AR2219	24.0	3,014	-	25.0	3,285	-
	53	AR2206H	25.5	3,137	-	28.0	3,272	-
	55	AR2207	21.0	3,024	-	23.0	3,222	-
	55	AR2219	22.5	2,867	-	24.5	3,191	-
	55	AR2206H	25.5	3,121	-	28.0	3,257	-
	63	AR2207	18.5	2,845	-	20.5	3,019	-
	63	AR2219	21.5	2,763	-	23.5	2,934	-
	63	AR2206H	24.5	2,869	-	26.5	3,046	-
22 Waldog 24" Barrel								
	52-53	AR2207	-	-	-	21.00	3,000	-
	52-53	AR2206	-	-	-	23.50	3,000	-
	52-53	AR2208	-	-	-	24.50	3,000	-
22 PPC 24" Barrel								
	40	Bench Mark 2	27.0	3,349	-	30.0	3,675	-
	40	AR2208	27.5	3,314	-	29.5	3,560	-
	50	AR2207	21.6	2,993	-	24.0	3,325	-
	50	Bench Mark 1	23.5	3,028	-	26.0	3,350	-
	50	AR2219	25.0	3,204	-	26.0	3,385	-
	50	Bench Mark 2	27.0	3,204	-	29.0	3,430	-
	50	AR2206	24.8	3,021	-	27.5	3,350	-
	50	AR2206H	26.0	2,989	-	28.0	3,347	-
	50	AR2208	27.5	3,205	-	29.5C	3,408	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
22 PPC 24" Barrel (cont)								
	53	AR2207	21.5	3,019	-	23.5	3,300	-
	53	Bench Mark 1	23.5	3,050	-	25.5	3,310	-
	53	AR2219	24.0	3,046	-	26.0	3,333	-
	53	Bench Mark 2	26.5	3,141	-	28.5	3,368	-
	53	AR2206H	26.0	3,079	-	28.0	3,321	-
	53	AR2208	26.5	3,179	-	28.5	3,363	-
	55	AR2219	24.0	3,052	-	26.0	3,306	-
	55	Bench Mark 2	26.0	3,080	-	28.2	3,310	-
	55	AR2206H	26.0	3,047	-	28.0	3,346	-
	55	AR2208	26.5	3,147	-	28.5	3,317	-
5.6mm x 50 Magnum 24" Barrel								
	40	AR2206	-	-	-	29.00	3,630	-
	45	AR2206	-	-	-	28.50	3,550	-
	45	AR2208	-	-	-	30.00	3,550	-
	50	AR2206	-	-	-	28.00	3,500	-
	50	AR2208	-	-	-	29.50	3,500	-
	55	AR2206	-	-	-	27.00	3,300	-
	55	AR2208	-	-	-	28.50	3,300	-
	60	AR2208	-	-	-	27.50	3,250	-
	70	AR2208	-	-	-	26.50	3,100	-
219 Donaldson Wasp 24" Barrel								
	40	AR2207	-	-	-	24.00	3,500	-
	40	AR2206	-	-	-	27.00	3,500	-
	40	AR2208	-	-	-	28.50	3,500	-
	50	AR2207	-	-	-	23.50	3,400	-
	50	AR2206	-	-	-	26.50	3,400	-
	50	AR2208	-	-	-	28.00	3,400	-
	52-53	AR2207	-	-	-	23.00	3,300	-
	52-53	AR2206	-	-	-	26.00	3,300	-
	52-53	AR2208	-	-	-	27.50	3,300	-
	55	AR2207	-	-	-	22.50	3,200	-
	55	AR2206	-	-	-	25.50	3,200	-
	55	AR2208	-	-	-	27.00	3,200	-
219 Zipper 24" Barrel								
	45	AR2207	-	-	-	22.00	3,200	-
	45	AR2206	-	-	-	25.00	3,200	-
	45	AR2208	-	-	-	26.00	3,200	-
	50	AR2207	-	-	-	21.00	3,000	-
	50	AR2206	-	-	-	24.00	3,000	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
219 Zipper 24" Barrel (cont)								
	50	AR2208	-	-	-	25.00	3,000	-
	52-53	AR2207	-	-	-	20.50	2,900	-
	52-53	AR2206	-	-	-	23.50	2,900	-
	52-53	AR2208	-	-	-	24.50	2,900	-
	55	AR2207	-	-	-	20.00	2,800	-
	55	AR2206	-	-	-	23.00	2,800	-
	55	AR2208	-	-	-	24.00	2,800	-
225 Winchester 26" Barrel								
	40	AR2219	28.0	3,628	-	31.0	3,896	-
	40	AR2206	30.0	3,436	-	33.0	3,780	-
	40	AR2206H	31.5	3,583	-	34.0	3,811	-
	40	AR2208	31.5	3,443	-	35.0	3,825	-
	45	AR2219	27.0	3,303	-	30.0	3,685	-
	45	AR2206	29.0	3,344	-	32.0	3,690	-
	45	AR2206H	31.0	3,504	-	33.5	3,736	-
	45	AR2208	31.0	3,415	-	34.0	3,745	-
	50	AR2219	26.0	3,164	-	29.0	3,401	-
	50	Bench Mark 2	27.0	3,303	-	30.0	3,670	-
	50	AR2206	29.0	3,340	-	32.0	3,685	-
	50	AR2206H	31.0	3,330	-	34.0	3,722	-
	50	AR2208	31.0	3,433	-	33.5	3,710	-
	52	AR2219	26.0	3,128	-	28.5	3,333	-
	52	Bench Mark 2	26.0	3,062	-	29.0	3,415	-
	52	AR2206	28.0	3,112	-	31.0	3,445	-
	52	AR2206H	29.5	3,239	-	32.0	3,463	-
	52	AR2208	30.0	3,155	-	33.0	3,470	-
	55	AR2219	25.5	3,052	-	28.0	3,283	-
	55	Bench Mark 2	26.0	3,091	-	28.5	3,390	-
	55	AR2206	27.5	3,070	-	30.5	3,405	-
	55	AR2206H	29.5	3,159	-	32.0	3,476	-
	55	AR2208	30.0	3,194	-	32.5	3,460	-
	55	AR2209	35.0	2,970	-	37.0	3,189	-
	60	Bench Mark 2	26.0	3,125	-	28.0	3,365	-
	60	AR2206	27.0	3,042	-	30.0	3,380	-
	60	AR2206H	29.0	3,125	-	32.0	3,396	-
	60	AR2208	30.0	3,188	-	32.0	3,400	-
	60	AR2209	34.0	2,911	-	36.0	3,120	-
	70	Bench Mark 2	23.5	2,919	-	26.0	3,230	-
	70	AR2206	25.5	2,964	-	28.0	3,255	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
225 Winchester 26" Barrel (cont)								
	70	AR2208	26.5	2,888	-	29.5	3,215	-
	70	AR2209	32.0	2,696	-	35.0	2,949	-
22/303 Swift 24" Barrel								
	45	AR2206	-	-	-	32.00	3,500	-
	45	AR2208	-	-	-	36.00	3,500	-
	50	AR2206	-	-	-	31.00	3,250	-
	50	AR2208	-	-	-	35.00	3,250	-
	55	AR2206	-	-	-	30.00	3,050	-
	55	AR2208	-	-	-	34.00	3,050	-
224 Weatherby Magnum 23" Barrel								
	45	AR2206H	29.5	3,419	-	32.0	3,861	-
	45	AR2208	29.0	3,250	-	31.5	3,650	-
	50	AR2206	28.5	3,215	-	30.5	3,580	-
	50	AR2206H	28.5	3,199	-	31.0	3,648	-
	50	AR2208	28.5	3,100	-	31.5	3,600	-
	53	AR2206	27.5	3,050	-	30.0	3,540	-
	53	AR2206H	27.5	3,032	-	30.0	3,522	-
	53	AR2208	28.0	3,000	-	31.0	3,500	-
	55	AR2206	27.0	2,940	-	29.5	3,450	-
	55	AR2206H	27.5	2,971	-	30.0	3,503	-
	55	AR2208	27.5	2,900	-	30.5	3,400	-
	55	AR2209	32.0	2,879	-	34.0	3,240	-
	55	AR2213SC	31.5	2,834	-	34.0	3,200	-
	60	AR2206	26.0	2,800	-	28.0	3,215	-
	60	AR2206H	26.0	2,792	-	28.0	3,205	-
	60	AR2208	27.0	2,800	-	29.0	3,200	-
	60	AR2209	31.0	2,832	-	34	3,240	-
	60	AR2213SC	31.0	2,781	-	33.5	3,041	-
	70	AR2206	25.0	2,650	-	27.0	2,900	-
	70	AR2208	26.0	2,650	-	28.5	2,900	-
	70	AR2209	30.0	2,644	-	32.0	2,777	-
	70	AR2213SC	30.0	2,395	-	32.0	2,486	-
22-250 Remington 24" Barrel								
	40	Bench Mark 2	34.0	3,837	-	36.5	4,114	-
	40	AR2206	34.0	3,780	-	37.0	4,175	-
	40	AR2206H	34.0	3,750	-	37.0	4,060	-
	40	AR2208	37.5	3,936	-	39.5	4,135	-
	50	AR2219	30.0	3,441	-	32.0	3,628	-
	50	Bench Mark 2	33.5	3,718	-	36.0	3,903	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
22-250 Remington 24" Barrel (cont)								
	50	AR2206	33.5	3,564	-	36.0	3,830	-
	50	AR2206H	33.5	3,530	-	36.5	3,827	-
	50	AR2208	34.5	3,596	-	37.5	3,834	-
	50	AR2209	39.0	3,410	-	42.0	3,579	-
	50	AR2213SC	39.0	3,225	-	42.0	3,473	-
	52	AR2207	27.0	3,384	-	29.0	3,635	-
	52	AR2219	29.0	3,379	-	31.0	3,498	-
	52	Bench Mark 2	32.5	3,602	-	34.6	3,755	-
	52	AR2206	32.5	3,505	-	35.0	3,750	-
	52	AR2206H	32.5	3,467	-	35.5	3,729	-
	52	AR2208	34.0	3,630	-	36.0	3,784	-
	52	AR2209	39.0	3,402	-	41.0	3,557	-
	55	AR2219	28.0	3,339	-	30.0	3,480	-
	55	Bench Mark 2	31.6	3,532	-	33.6	3,674	-
	55	AR2206	32.5	3,415	-	35.0	3,680	-
	55	AR2206H	32.5	3,446	-	35.5	3,670	-
	55	AR2208	34.0	3,490	-	36.5	3,664	-
	55	AR2209	37.0	3,296	-	39.0	3,490	-
	63	AR2206H	31.5	3,317	-	34.0	3,486	-
	63	AR2208	29.5	3,039	-	34.0	3,426	-
	63	AR2209	36.0	3,210	-	38.0	3,391	-
	63	AR2213SC	37.0	3,105	-	41.0	3,441	-
	70	AR2206	28.0	3,001	-	30.0	3,180	-
	70	AR2206H	28.0	2,933	-	31.5	3,196	-
	70	AR2208	29.5	3,006	-	32.0	3,196	-
	70	AR2209	34.0	3,007	-	36.0	3,129	-
	70	AR2213SC	35.0	2,976	-	38.0	3,189	-
	70	AR2217	36.0	3,042	-	38.0	3,187	-
22-250 Improved (Ackley) 26" Barrel								
	50	AR2206	-	-	-	36.50	3,800	-
	50	AR2208	-	-	-	39.00	3,800	-
	50	AR2209	-	-	-	42.50	3,800	-
	52-53	AR2206	-	-	-	35.50	3,750	-
	52-53	AR2208	-	-	-	38.00	3,750	-
	52-53	AR2209	-	-	-	41.00	3,750	-
	55	AR2206	-	-	-	34.50	3,650	-
	55	AR2208	-	-	-	37.00	3,650	-
	55	AR2209	-	-	-	40.00	3,650	-
	60-63	AR2206	-	-	-	32.50	3,500	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
22-250 Improved (Ackley) 26" Barrel (cont)								
	60-63	AR2208	-	-	-	35.00	3,500	-
	60-63	AR2209	-	-	-	38.00	3,500	-
	68-70	AR2206	-	-	-	31.50	3,400	-
	68-70	AR2208	-	-	-	34.00	3,400	-
	68-70	AR2209	-	-	-	37.00	3,400	-
220 Swift 26" Barrel								
	40	AR2206	36.0	3,680	-	38.0	3,950	-
	40	AR2206H	37.0	3,768	-	40.0	4,126	-
	40	AR2208	38.0	4,007	-	40.5	4,113	-
	45	AR2206	36.0	3,650	-	37.5	3,800	-
	45	AR2206H	36.5	3,676	-	39.5	3,996	-
	45	AR2208	36.0	3,777	-	40.2	4,002	-
	50	Bench Mark 2	35.0	3,480	-	37.5	3,845	-
	50	AR2206	35.0	3,470	-	38.5	3,920	-
	50	AR2206H	35.0	3,460	-	38.0	3,840	-
	50	AR2208	34.5	3,616	-	36.0	3,770	-
	50	AR2209	40.0	3,550	-	44.5C	3,770	-
	50	AR2213SC	39.5	3,400	-	44.5C	3,545	-
	52	AR2206H	33.8	3,588	-	36.0	3,736	-
	52	AR2208	34.0	3,516	-	36.5	3,687	-
	55	AR2206H	34.0	3,481	-	37.0	3,698	-
	55	AR2208	34.0	3,516	-	36.0	3,645	-
	55	AR2209	39.0	3,225	-	42.0	3,619	-
	55	AR2213SC	41.5	3,194	-	46.0	3,616	-
	60	AR2206H	30.5	3,165	-	33.5	3,401	-
	60	AR2208	33.0	3,242	-	36.0	3,473	-
	60	AR2209	37.0	3,230	-	41.0	3,527	-
	60	AR2213SC	41.5	3,252	-	46.0C	3,556	-
	60	AR2217	41.0	3,100	-	45.5	3,343	-
	63	AR2206H	32.5	3,218	-	35.5	3,484	-
	63	AR2208	32.0	3,181	-	34.0	3,407	-
	63	AR2209	37.0	3,181	-	39.0	3,474	-
	63	AR2213SC	41.5	3,180	-	46.0	3,586	-
	70	AR2208	31.0	3,103	-	33.0	3,247	-
	70	AR2209	36.0	3,027	-	38.0	3,313	-
	70	AR2213SC	37.0	2,991	-	42.0	3,359	-
	70	AR2217	42.0	3,149	-	44.0	3,317	-
220 Jaybird 26" Barrel								
	52	AR2209	43.0	3,508	-	47.0	3,992	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
220 Jaybird 26" Barrel (cont)								
	55	AR2209	43.0	3,509	-	47.0	3,981	-
	60	AR2209	41.0	3,235	-	45.0	3,763	-
	60	AR2213SC	43.0	3,362	-	47.0	3,772	-
	69	AR2213SC	43.0	3,318	-	47.0	3,654	-
5.6mm X 57 RWS 26" Barrel								
	50	AR2208	-	-	-	37.00	3,700	-
	50	AR2209	-	-	-	41.00	3,700	-
	55	AR2208	-	-	-	36.00	3,550	-
	55	AR2209	-	-	-	40.00	3,550	-
	60	AR2208	-	-	-	35.00	3,450	-
	60	AR2209	-	-	-	39.00	3,450	-
	69-70	AR2208	-	-	-	34.00	3,300	-
	69-70	AR2209	-	-	-	38.00	3,300	-
	74	AR2209	-	-	-	37.00	3,250	-
CAUTION: If reloading old style thick walled brass reduce these loads by at least 4 grains to avoid dangerous pressures.								
22 Cheetah Mark II 27" Barrel								
	50	AR2209	46.0	3,901	-	51.0	4,069	-
	55	AR2209	46.0	3,776	-	51.0	4,017	-
223 Winchester Super Short Magnum 24" Barrel								
	40	AR2206H	40.4	4,121	54,300 psi	43.0	4,320	62,900 psi
	40	AR2208	41.0	4,074	54,100 psi	43.5	4,278	63,800 psi
	45	AR2206H	40.0	3,951	51,200 psi	42.8	4,153	61,900 psi
	45	AR2208	40.7	3,935	51,400 psi	43.3	4,136	61,800 psi
	45	AR2209	47.0	3,887	54,100 psi	50.0C	4,131	63,000 psi
	50	AR2206H	40.0	3,805	51,600 psi	42.9	4,021	62,700 psi
	50	AR2208	41.0	3,784	50,500 psi	44.0	4,015	61,800 psi
	50	AR2209	47.0	3,781	50,200 psi	50.0C	4,023	61,500 psi
	52	AR2206H	38.8	3,805	54,400 psi	41.3	3,948	61,600 psi
	52	AR2208	40.0	3,758	54,000 psi	43.0	3,948	63,600 psi
	52	AR2209	46.0	3,753	51,500 psi	49.0C	3,959	62,300 psi
	55	AR2206H	36.5	3,622	53,200 psi	39.0	3,798	62,100 psi
	55	AR2208	38.0	3,651	53,300 psi	40.5	3,836	62,100 psi
	55	AR2209	44.5	3,713	55,900 psi	47.5	3,881	63,100 psi
	55	AR2213SC	46.0	3,579	53,000 psi	49.0C	3,743	62,600 psi
	60	AR2206H	35.0	3,479	53,700 psi	37.3	3,625	62,200 psi
	60	AR2208	36.0	3,510	55,400 psi	38.5	3,656	61,400 psi
	60	AR2209	41.0	3,568	57,800 psi	43.8	3,723	63,400 psi
	60	AR2213SC	43.5	3,522	58,300 psi	46.3C	3,661	63,500 psi

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
223 Winchester Super Short Magnum 24" Barrel (cont)								
	69	AR2206H	34.5	3,278	56,500 psi	36.8	3,426	61,800 psi
	69	AR2208	36.0	3,324	55,900 psi	38.5	3,492	62,900 psi
	69	AR2209	40.0	3,321	52,400 psi	42.5	3,505	63,300 psi
	69	AR2213SC	43.5	3,312	54,700 psi	46.5C	3,489	63,200 psi
	69	AR2217	46.8	3,329	53,700 psi	49.8C	3,472	60,100 psi
	75	AR2206H	33.0	3,119	56,200 psi	35.2	3,266	61,200 psi
	75	AR2208	34.5	3,174	55,200 psi	36.8	3,330	61,700 psi
	75	AR2209	39.0	3,227	57,900 psi	41.5	3,376	63,700 psi
	75	AR2213SC	42.0	3,201	56,500 psi	45.1	3,352	63,200 psi
	75	AR2217	46.0	3,250	55,900 psi	49.0C	3,378	62,400 psi
	77	AR2206H	32.0	3,048	58,100 psi	34.2	3,196	62,700 psi
	77	AR2208	33.5	3,099	59,100 psi	35.8	3,249	63,000 psi
	77	AR2209	37.0	3,135	54,600 psi	39.5	3,289	61,000 psi
	77	AR2213SC	40.5	3,159	57,600 psi	43.3	3,299	62,700 psi
	77	AR2217	44.5	3,221	57,400 psi	47.7C	3,359	63,500 psi
22 Savage Hi Power (5.6 x 52R) 24" Barrel								
	70	AR2207	-	-	-	21.50	2,900	-
	70	AR2208	-	-	-	24.50	2,900	-
6mm-222 24" Barrel								
	60	AR2207	17.0	2,792	-	19.0	3,023	-
	60	AR2206H	21.5	2,748	-	23.5	3,043	-
	75	AR2207	16.0	2,469	-	18.0	2,718	-
	75	AR2206H	20.0	2,443	-	22.0	2,660	-
	85	AR2207	14.5	2,292	-	16.5	2,514	-
	85	AR2206H	19.5	2,375	-	20.5	2,505	-
	100	AR2207	13.0	1,912	-	15.0	2,090	-
	100	AR2206H	17.0	1,998	-	19.0	2,212	-
6mm-284 26" Barrel								
	60	AR2206H	45.0	3,740	-	48.5	3,910	-
	60	AR2208	45.0	3,672	-	49.0	3,855	-
	60	AR2209	54.0	3,719	-	58.0	3,976	-
	60	AR2213SC	56.0	3,584	-	60.0C	3,756	-
	70	AR2209	52.0	3,550	-	55.0	3,731	-
	70	AR2213SC	55.0	3,442	-	58.5C	3,632	-
	75	AR2209	49.0	3,466	-	53.0	3,644	-
	75	AR2213SC	53.0	3,331	-	56.5	3,566	-
	80	AR2209	47.5	3,259	-	50.5	3,447	-
	80	AR2213SC	52.0	3,306	-	55.0	3,440	-
	80	AR2217	55.0	3,296	-	59.0C	3,467	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm-284 26" Barrel (cont)								
	85	AR2209	49.0	3,193	-	52.0	3,370	-
	85	AR2213SC	53.0	3,170	-	56.5C	3,370	-
	85	AR2217	57.0	3,201	-	59.0	3,271	-
	85	AR2225	57.0	3,131	-	59.0C	3,272	-
	90	AR2209	44.5	3,077	-	47.5	3,223	-
	90	AR2213SC	49.0	3,101	-	52.5	3,272	-
	90	AR2217	52.0	3,072	-	55.5	3,241	-
	90	AR2225	55.5	3,185	-	59.0C	3,338	-
	100	AR2209	43.0	2,925	-	46.0	3,066	-
	100	AR2213SC	48.0	2,960	-	51.0	3,108	-
	100	AR2217	52.0	3,007	-	55.0	3,145	-
	100	AR2225	54.0	3,018	-	57.5	3,219	-
	105	AR2213SC	45.0	2,804	-	48.0	2,978	-
	105	AR2217	47.0	2,794	-	50.0	2,913	-
	105	AR2225	51.0	2,901	-	54.5C	3,070	-
	115	AR2213SC	43.0	2,670	-	46.0	2,797	-
	115	AR2217	46.0	2,682	-	49.0	2,805	-
	115	AR2225	50.0	2,805	-	53.0C	2,934	-
6mm x 45 24" Barrel								
	60	AR2207	19.5	2,617	-	21.5	2,956	-
	60	AR2219	23.0	2,849	-	25.0	3,097	-
	60	AR2206H	25.5	2,872	-	27.5	3,102	-
	70	AR2207	19.0	2,515	-	21.0	2,773	-
	70	AR2219	23.0	2,758	-	25.0	2,985	-
	70	AR2206H	25.5	2,809	-	27.5	3,034	-
	75	AR2207	18.5	2,297	-	19.5	2,480	-
	75	AR2219	23.0	2,774	-	24.0	2,860	-
	75	AR2206H	25.0	2,704	-	27.0	2,952	-
	80	AR2207	17.5	2,230	-	19.0	2,440	-
	80	AR2219	21.5	2,503	-	23.5	2,783	-
	80	AR2206H	25.0	2,689	-	27.0	2,904	-
	85	AR2207	17.5	2,230	-	19.0	2,440	-
	85	AR2219	21.5	2,480	-	23.5	2,695	-
	85	AR2206H	24.0	2,559	-	26.0	2,786	-
	90	AR2207	17.5	2,189	-	19.0	2,350	-
	90	AR2219	20.5	2,391	-	22.5	2,531	-
	90	AR2206H	23.5	2,509	-	25.5	2,721	-
6mm x 47 23.5" Barrel								
	60	AR2207	22.0	2,895	-	24.0	3,170	-

C = Compressed Loads: L = Lead Projectile

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm x 47 23.5" Barrel (cont)								
	60	Bench Mark 1	25.0	2,955	-	27.0	3,180	-
	60	AR2219	26.0	3,040	-	28.0	3,222	-
	60	AR2206	26.0	2,950	-	28.0	3,110	-
	60	AR2206H	26.0	2,919	-	28.5	3,098	-
	60	AR2208	26.0	2,870	-	29.0	3,100	-
	70	AR2207	21.0	2,726	-	23.0	2,944	-
	70	Bench Mark 1	24.5	2,785	-	27.0	2,990	-
	70	AR2219	26.0	2,935	-	28.0	3,116	-
	70	AR2206	26.0	2,840	-	28.0	2,970	-
	70	AR2206H	26.0	2,745	-	28.0	2,915	-
	70	AR2208	26.5	2,795	-	28.5	2,920	-
	75	AR2207	20.5	2,664	-	22.5	2,852	-
	75	Bench Mark 1	23.5	2,680	-	25.5	2,890	-
	75	AR2219	24.0	2,698	-	26.0	2,958	-
	75	AR2206	25.0	2,670	-	27.0	2,870	-
	75	AR2206H	25.5	2,709	-	27.5	2,911	-
	75	AR2208	26.0	2,555	-	28.0	2,750	-
	80	AR2207	20.0	2,527	-	22.0	2,700	-
	80	Bench Mark 1	21.0	2,550	-	23.0	2,750	-
	80	AR2219	23.5	2,604	-	25.5	2,808	-
	80	AR2206	24.0	2,498	-	26.0	2,704	-
	80	AR2206H	25.0	2,622	-	27.0	2,860	-
	80	AR2208	25.0	2,410	-	27.0	2,600	-
6mm PPC 24" Barrel								
	60	AR2207	21.0	2,856	-	23.0	2,973	-
	60	Bench Mark 1	24.0	2,920	-	25.5	3,100	-
	60	AR2219	26.0	3,090	-	27.0	3,165	-
	60	Bench Mark 2	26.0	2,909	-	29.0	3,236	-
	60	AR2206	27.0	3,060	-	29.0	3,282	-
	60	AR2206H	27.0	2,913	-	29.0	3,218	-
	60	AR2208	27.0	2,901	-	29.0	3,076	-
	70	AR2207	21.0	2,745	-	22.0	2,839	-
	70	Bench Mark 1	24.0	2,780	-	26.0	3,011	-
	70	AR2219	25.0	2,967	-	26.5	3,068	-
	70	Bench Mark 2	26.0	2,803	-	29.0	3,149	-
	70	AR2206	26.0	2,780	-	29.0	3,100	-
	70	AR2206H	26.0	2,714	-	28.0	3,034	-
	70	AR2208	27.0	2,845	-	29.0	3,034	-
	75	AR2207	20.0	2,661	-	21.0	2,780	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm PPC 24" Barrel (cont)								
	75	Bench Mark 1	22.0	2,615	-	24.0	2,850	-
	75	AR2219	24.5	2,809	-	26.0	2,974	-
	75	Bench Mark 2	25.5	2,749	-	28.5	3,037	-
	75	AR2206	25.5	2,700	-	27.5	3,010	-
	75	AR2206H	25.5	2,740	-	27.5	2,981	-
	75	AR2208	26.0	2,737	-	28.0	2,906	-
	80	AR2207	19.0	2,359	-	21.0	2,641	-
	80	AR2219	23.5	2,658	-	25.5	2,866	-
	80	Bench Mark 2	25.0	2,674	-	28.0	2,970	-
	80	AR2206H	25.0	2,641	-	27.0	2,904	-
	80	AR2208	26.0	2,689	-	28.0	2,843	-
	85	AR2219	23.0	2,571	-	27.0	2,860	-
	85	Bench Mark 2	24.5	2,619	-	27.0	2,860	-
	85	AR2206H	24.0	2,540	-	26.0	2,782	-
	85	AR2208	26.0	2,671	-	28.0	2,848	-
	107	Bench Mark 2	24.0	2,437	-	25.8	2,584	-
6mm BR Remington 24" Barrel								
	60	AR2207	25.0	3,137	-	27.5	3,378	-
	60	AR2219	30.0	3,281	-	32.0	3,481	-
	60	Bench Mark 2	30.0	3,165	-	32.0	3,373	-
	60	AR2206	30.5	3,175	-	32.5	3,380	-
	60	AR2206H	31.0	3,177	-	33.0C	3,384	-
	60	AR2208	31.0	3,161	-	34.0C	3,442	-
	70	AR2219	28.0	2,976	-	30.0	3,200	-
	70	Bench Mark 2	29.7	3,019	-	31.6	3,227	-
	70	AR2206	29.0	2,995	-	31.0	3,200	-
	70	AR2206H	29.0	2,895	-	31.0	3,188	-
	70	AR2208	31.0	3,101	-	34.0C	3,342	-
	75	AR2219	26.0	2,756	-	28.0	3,096	-
	75	Bench Mark 2	29.0	2,959	-	31.0	3,127	-
	75	AR2206	28.5	2,915	-	30.5	3,120	-
	75	AR2206H	28.5	2,980	-	30.5	3,129	-
	75	AR2208	30.5	3,057	-	32.5	3,239	-
	80	AR2219	26.0	2,787	-	28.0	3,005	-
	80	Bench Mark 2	28.5	2,872	-	30.5	3,048	-
	80	AR2206H	28.0	2,945	-	30.0	3,100	-
	80	AR2208	30.5	2,999	-	32.5	3,159	-
	85	AR2219	22.0	2,472	-	24.0	2,632	-
	85	Bench Mark 2	27.7	2,792	-	29.7	2,960	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm BR Remington 24" Barrel (cont)								
	85	AR2206H	24.5	2,590	-	26.5	2,770	-
	85	AR2208	29.0	2,840	-	31.0	3,007	-
	90	AR2219	22.0	2,423	-	24.0	2,607	-
	90	Bench Mark 2	27.0	2,703	-	29.0	2,868	-
	90	AR2206H	24.5	2,560	-	27.0	2,743	-
	90	AR2208	27.5	2,674	-	30.2	2,886	-
	100	AR2219	22.0	2,275	-	23.5	2,519	-
	100	Bench Mark 2	26.0	2,485	-	28.0	2,670	-
	100	AR2206H	24.5	2,423	-	27.0	2,603	-
	100	AR2208	26.0	2,491	-	28.0	2,649	-
6mm International 20" Barrel								
	60	AR2207	-	-	-	30.00	3,300	-
	60	AR2206	-	-	-	33.50	3,300	-
	60	AR2208	-	-	-	36.00	3,300	-
	75	AR2207	-	-	-	27.00	2,900	-
	75	AR2206	-	-	-	30.50	2,900	-
	75	AR2208	-	-	-	33.00	2,900	-
6mm-250 24" Barrel								
	55	Bench Mark 2	34.0	3,452	-	37.0	3,684	-
	55	AR2206H	37.0	3,544	-	39.7C	3,766	-
	55	AR2208	38.0	3,515	-	40.5C	3,720	-
	60	Bench Mark 2	33.0	3,337	-	35.5	3,525	-
	60	AR2206H	36.0	3,417	-	38.5	3,674	-
	60	AR2208	37.0	3,398	-	39.3	3,601	-
	70	Bench Mark 2	31.0	3,149	-	34.3	3,311	-
	70	AR2206H	34.0	3,228	-	37.0	3,436	-
	70	AR2208	35.0	3,166	-	37.5	3,383	-
	80	AR2206H	34.0	3,185	-	36.0	3,304	-
	80	AR2208	34.0	3,104	-	36.7	3,274	-
	80	AR2209	39.0	3,082	-	41.0C	3,211	-
	85	AR2206H	32.7	3,070	-	34.8	3,191	-
	85	AR2208	33.0	3,011	-	35.4	3,171	-
	85	AR2209	38.5	3,059	-	41.0C	3,223	-
	90	AR2206H	32.4	2,939	-	34.5	3,060	-
	90	AR2208	33.3	2,923	-	35.5	3,053	-
	90	AR2209	38.5	2,985	-	41.0C	3,126	-
	95	AR2206H	31.0	2,830	-	33.0	2,935	-
	95	AR2208	31.7	2,819	-	33.8	2,962	-
	95	AR2209	36.5	2,887	-	39.0C	3,045	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm-250 24" Barrel (cont)								
	95	AR2213SC	37.5	2,700	-	40.0C	2,826	-
	100	AR2206H	29.8	2,710	-	31.8	2,835	-
	100	AR2208	31.5	2,741	-	33.5	2,851	-
	100	AR2209	35.5	2,769	-	37.9C	2,890	-
	105	AR2206H	28.9	2,646	-	30.8	2,731	-
	105	AR2208	30.8	2,726	-	32.8	2,822	-
	105	AR2209	34.7	2,724	-	37.0C	2,883	-
	105	AR2213SC	37.6	2,692	-	40.0C	2,800	-
	107	AR2206H	29.7	2,659	-	31.6	2,783	-
	107	AR2208	31.2	2,716	-	33.2	2,817	-
	107	AR2209	35.2	2,720	-	37.5	2,844	-
	107	AR2213SC	37.6	2,606	-	40.0C	2,738	-
243 Winchester 24" Barrel								
	55	Bench Mark 2	39.0	3,575	-	41.5	3,815	-
	55	AR2206	39.0	3,695	-	42.0	3,890	-
	55	AR2206H	40.0	3,638	-	44.5	4,058	-
	55	AR2208	41.0	3,776	-	45.0	4,000	-
	55	AR2209	47.0	3,580	-	50.0C	3,825	-
	60	Bench Mark 2	38.5	3,587	-	41.2	3,713	-
	60	AR2206	38.0	3,550	-	41.5	3,715	-
	60	AR2206H	38.0	3,521	-	42.0	3,812	-
	60	AR2208	40.0	3,671	-	42.7	3,816	-
	70	Bench Mark 2	36.5	3,128	-	39.3	3,491	-
	70	AR2206	36.0	3,295	-	38.0	3,495	-
	70	AR2206H	36.0	3,286	-	39.5	3,477	-
	70	AR2208	38.0	3,433	-	40.5	3,574	-
	70	AR2209	40.0	2,995	-	43.5	3,190	-
	70	AR2213SC	44.0	3,000	-	48.00	3,159	-
	75	AR2206	34.0	3,125	-	36.5	3,330	-
	75	AR2206H	34.0	3,101	-	38.0	3,354	-
	75	AR2208	36.0	3,246	-	38.5	3,408	-
	75	AR2209	41.0	2,950	-	44.5	3,335	-
	75	AR2213SC	44.0	2,950	-	48.0	3,177	-
	80	AR2206	34.0	3,055	-	36.0	3,225	-
	80	AR2206H	35.0	3,123	-	38.0	3,307	-
	80	AR2208	36.0	3,193	-	38.5	3,355	-
	80	AR2209	42.0	3,100	-	45.0	3,290	-
	80	AR2213SC	44.0	3,015	-	47.3	3,295	-
	85	AR2206	32.0	2,950	-	35.5	3,125	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
243 Winchester 24" Barrel (cont)								
	85	AR2206H	35.0	3,015	-	38.0	3,186	-
	85	AR2208	35.0	3,019	-	38.0	3,212	-
	85	AR2209	42.0	2,967	-	45.5C	3,214	-
	90	AR2206H	34.0	2,967	-	36.5	3,114	-
	90	AR2208	34.0	2,964	-	36.5	3,106	-
	90	AR2209	42.0	3,039	-	44.5	3,185	-
	90	AR2213SC	45.0	3,010	-	48.0C	3,203	-
	95	AR2206H	33.0	2,865	-	35.0	2,990	-
	95	AR2208	33.0	2,870	-	35.0	2,996	-
	95	AR2209	39.0	2,917	-	42.0	3,087	-
	95	AR2213SC	42.0	2,930	-	44.5C	3,052	-
	95	AR2217	45.0	2,946	-	48.0C	3,077	-
	100	AR2206H	31.0	2,683	-	33.0	2,818	-
	100	AR2208	31.0	2,674	-	33.7	2,838	-
	100	AR2209	37.0	2,806	-	40.0	2,973	-
	100	AR2213SC	39.0	2,761	-	42.0	2,924	-
	100	AR2217	44.0	2,876	-	47.0C	3,000	-
	105	AR2206H	30.5	2,619	-	32.5	2,724	-
	105	AR2208	31.0	2,631	-	33.0	2,769	-
	105	AR2209	35.0	2,663	-	37.5	2,799	-
	105	AR2213SC	38.0	2,687	-	41.0	2,846	-
	105	AR2217	43.0	2,798	-	46.0C	2,930	-
	105	AR2225	46.0	2,772	-	49.0C	2,986	-
	107	AR2206H	30.5	2,613	-	32.5	2,719	-
	107	AR2208	31.0	2,630	-	33.0	2,749	-
	107	AR2209	35.0	2,671	-	37.5	2,800	-
	107	AR2213SC	38.0	2,678	-	41.0	2,835	-
	107	AR2217	43.0	2,787	-	46.0C	2,918	-
	107	AR2225	46.0	2,785	-	49.0C	2,974	-
6mm Remington (.244 Remington) 24" Barrel								
	55	Bench Mark 2	41.5	3,736	-	44.2	3,977	-
	55	AR2206H	41.0	3,802	-	45.5	4,115	-
	55	AR2208	42.0	3,772	-	46.0	4,014	-
	60	Bench Mark 2	40.0	3,569	-	43.0	3,841	-
	60	AR2206H	40.0	3,548	-	44.0	3,854	-
	60	AR2208	38.0	3,367	-	42.0	3,722	-
	65	Bench Mark 2	39.0	3,517	-	41.3	3,704	-
	65	AR2206H	38.5	3,459	-	42.7	3,718	-
	65	AR2208	40.0	3,471	-	44.0	3,737	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm Remington (.244 Remington) 24" Barrel (cont)								
	65	AR2209	48.0	3,489	-	51.5	3,717	-
	65	AR2213SC	51.0	3,483	-	53.0C	3,574	-
	70	Bench Mark 2	38.0	3,383	-	40.7	3,575	-
	70	AR2206H	38.0	3,279	-	42.0	3,588	-
	70	AR2208	38.0	3,245	-	42.0	3,550	-
	70	AR2209	46.0	3,316	-	50.5	3,638	-
	75	AR2206H	36.0	3,152	-	40.0	3,393	-
	75	AR2208	37.0	3,184	-	41.0	3,395	-
	75	AR2209	44.0	3,177	-	49.0	3,502	-
	75	AR2213SC	48.0	3,209	-	51.0	3,488	-
	80	AR2206H	36.0	3,113	-	39.5	3,307	-
	80	AR2208	37.0	3,087	-	41.0	3,379	-
	80	AR2209	44.0	3,157	-	47.0	3,337	-
	80	AR2213SC	48.0	3,203	-	51.0	3,358	-
	85	AR2206H	35.0	3,009	-	38.0	3,201	-
	85	AR2208	35.0	2,979	-	39.0	3,235	-
	85	AR2209	41.0	2,994	-	46.0	3,275	-
	85	AR2213SC	44.0	2,983	-	49.5	3,291	-
	87	AR2206H	33.7	2,912	-	37.4	3,162	-
	87	AR2208	35.5	3,011	-	38.5	3,174	-
	87	AR2209	41.0	3,018	-	45.5	3,240	-
	87	AR2213SC	43.5	2,968	-	48.0	3,213	-
	90	AR2206H	33.0	2,757	-	36.0	2,937	-
	90	AR2208	33.0	2,719	-	36.5	2,954	-
	90	AR2209	40.0	2,913	-	43.0	3,062	-
	90	AR2213SC	43.0	2,945	-	45.0	3,027	-
	90	AR2217	48.0	3,056	-	50.0C	3,127	-
	95	AR2208	34.0	2,793	-	37.0	2,996	-
	95	AR2209	42.0	2,914	-	45.0	3,103	-
	95	AR2213SC	45.0	2,908	-	48.7	3,125	-
	95	AR2217	50.0	2,984	-	52.0C	3,094	-
	100	AR2206H	33.0	2,734	-	35.0	2,889	-
	100	AR2208	32.0	2,590	-	36.0	2,933	-
	100	AR2209	39.0	2,822	-	42.5	2,999	-
	100	AR2213SC	43.0	2,939	-	46.0	3,042	-
	100	AR2217	47.0	2,912	-	50.0	3,080	-
	105	AR2208	33.0	2,717	-	35.5	2,879	-
	105	AR2209	40.0	2,819	-	43.2	2,987	-
	105	AR2213SC	43.0	2,794	-	46.5	3,002	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm Remington (.244 Remington) 24" Barrel (cont)								
	105	AR2217	49.0	2,896	-	51.0C	3,010	-
	107	AR2208	31.5	2,539	-	35.5	2,854	-
	107	AR2209	39.0	2,747	-	42.0	2,906	-
	107	AR2213SC	43.0	2,821	-	46.0	2,988	-
	107	AR2217	47.0	2,862	-	49.5	3,011	-
	107	AR2225	49.0	2,800	-	52.0C	2,980	-
	115	AR2209	36.0	2,537	-	39.0	2,696	-
	115	AR2213SC	39.0	2,598	-	42.0	2,761	-
	115	AR2217	43.0	2,665	-	45.5	2,793	-
	115	AR2225	47.0	2,711	-	50.0C	2,878	-
243 Winchester Super Short Magnum 24" Barrel								
	58	AR2206H	42.0	3,756	51,700 psi	45.3	4,021	63,100 psi
	58	AR2208	44.0	3,739	52,000 psi	47.0	3,975	62,800 psi
	70	AR2206H	39.0	3,434	52,500 psi	42.0	3,618	62,500 psi
	70	AR2208	41.0	3,474	54,500 psi	43.7	3,655	63,400 psi
	70	AR2209	45.0	3,385	48,000 psi	48.7C	3,614	58,400 psi
	80	AR2206H	38.5	3,255	53,300 psi	41.0	3,409	62,500 psi
	80	AR2208	39.0	3,288	54,400 psi	42.0	3,462	63,300 psi
	80	AR2209	45.0	3,323	52,600 psi	48.7C	3,545	63,000 psi
	90	AR2206H	35.0	2,954	52,000 psi	37.7	3,124	61,900 psi
	90	AR2208	36.0	2,979	53,200 psi	39.2	3,175	63,200 psi
	90	AR2209	41.0	3,087	56,200 psi	44.0C	3,245	62,900 psi
	90	AR2213SC	44.0	3,045	55,800 psi	47.0C	3,200	63,200 psi
	100	AR2206H	33.0	2,809	55,100 psi	35.5	2,946	63,600 psi
	100	AR2208	34.0	2,829	53,600 psi	36.6	2,981	62,100 psi
	100	AR2209	39.0	2,938	55,400 psi	41.7	3,074	62,300 psi
	100	AR2213SC	41.5	2,878	54,000 psi	45.0	3,058	63,000 psi
240 Weatherby Magnum 24" Barrel								
	60	AR2206H	-	-	-	47.0	3,521	-
	60	AR2213SC	-	-	-	57.0	3,488	-
	75	AR2206H	-	-	-	46.0	3,445	-
	75	AR2213SC	-	-	-	56.0	3,453	-
	80	AR2206H	-	-	-	44.0	3,359	-
	80	AR2213SC	-	-	-	56.0	3,481	-
	80	AR2217	57.0	3,082	-	59.0	3,207	-
	85	AR2213SC	-	-	-	56.0	3,460	-
	85	AR2217	57.0	3,043	-	59.0	3,167	-
	90	AR2213SC	-	-	-	55.0	3,394	-
	90	AR2217	57.0	3,037	-	59.0	3,140	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
240 Weatherby Magnum 24" Barrel (cont)								
	100	AR2213SC	-	-	-	53.0	3,202	-
	100	AR2217	57.0	3,018	-	59..0	3,122	-
	115	AR2213SC	-	-	-	46.0	2,779	-
	115	AR2217	56.0	2,971	-	58.0	3,066	-
25/20 Winchester 24" Barrel								
	60	AR2205	9.6	1,854	-	10.2	1,962	-
	60	AR2207	12.0	1,814	-	14.2C	2,101	-
	60	AR2219	14.0	1,799	-	15.0C	1,900	-
L	71	AR2205	6.0	1,146	-	7.0	1,346	-
	75	AR2205	8.3	1,521	-	9.3	1,741	-
	75	AR2207	10.5	1,530	-	12.8	1,877	-
	75	AR2219	12.0	1,523	-	13.5	1,702	-
L	85	AR2205	6.0	1,129	-	7.0	1,317	-
	86	AR2205	8.0	1,444	-	8.6	1,545	-
	86	AR2207	10.5	1,576	-	11.5	1,673	-
	86	AR2219	11.3	1,358	-	12.0	1,517	-
256 Winchester Magnum 24" Barrel								
	60	AR2207	17.0	2,686	-	18.0	2,794	-
	75	AR2207	14.0	2,019	-	16.0	2,327	-
	87	AR2207	14.0	2,081	-	15.0	2,192	-
25 Remington 20" Barrel								
	87	AR2207	-	-	-	21.00	2,500	-
	87	AR2206	-	-	-	25.00	2,500	-
	87	AR2208	-	-	-	26.00	2,500	-
	100	AR2207	-	-	-	20.00	2,200	-
	100	AR2206	-	-	-	24.00	2,200	-
	100	AR2208	-	-	-	26.00	2,200	-
	117	AR2207	-	-	-	18.50	2,000	-
	117	AR2206	-	-	-	22.50	2,000	-
	117	AR2208	-	-	-	23.50	2,000	-
25/35 Winchester 20" Barrel								
	60	AR2207	20.0	2,626	-	21.7	2,827	-
	60	AR2219	22.0	2,522	-	24.5	2,793	-
	60	Bench Mark 2	23.0	2,626	-	25.7	2,867	-
	60	AR2206H	26.0	2,796	-	30.5C	3,014	-
	60	AR2208	28.0	2,677	-	31.5C	2,972	-
	75	AR2207	19.0	2,422	-	20.5	2,515	-
	75	AR2219	21.0	2,256	-	23.5	2,543	-
	75	Bench Mark 2	21.0	2,305	-	23.0	2,502	-

C = Compressed Loads: L = Lead Projectile

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25/35 Winchester 20" Barrel (cont)								
L	75	AR2206H	25.0	2,471	-	27.4	2,689	-
	75	AR2208	26.5	2,487	-	29.0	2,672	-
	90	AS30N	5.0	1,284	-	6.0	1,344	-
	117	AR2207	16.8	1,889	-	18.8	2,065	-
	117	AR2219	19.0	1,916	-	21.0	2,127	-
	117	Bench Mark 2	19.0	1,902	-	21.0	2,063	-
	117	AR2206H	19.5	1,875	-	22.5	2,168	-
	117	AR2208	21.0	1,916	-	24.5	2,244	-
250 Savage (250-3000) 26" Barrel								
	60	AR2207	30.0	3,202	-	33.0	3,515	-
	60	AR2209	39.0	3,210	-	42.0	3,394	-
	75	Bench Mark 2	31.0	2,981	-	33.0	3,102	-
	75	AR2206H	34.0	3,088	-	36.5	3,256	-
	75	AR2208	36.0	3,061	-	38.5	3,254	-
	75	AR2209	39.0	3,080	-	42.0	3,222	-
	87	Bench Mark 2	30.5	2,804	-	32.5	2,937	-
	87	AR2206H	33.0	2,913	-	35.5	3,068	-
	87	AR2208	35.0	2,947	-	37.0	3,074	-
	87	AR2209	38.0	2,816	-	41.0	3,063	-
	100	AR2206H	31.0	2,698	-	33.5	2,849	-
	100	AR2208	33.0	2,750	-	35.2	2,877	-
	100	AR2209	38.0	2,773	-	40.5C	2,936	-
	100	AR2213SC	41.0	2,717	-	42.0	2,890	-
	117	AR2206H	28.5	2,447	-	30.5	2,579	-
	117	AR2208	30.0	2,493	-	32.0	2,594	-
	117	AR2209	35.0	2,518	-	37.0C	2,637	-
	117	AR2213SC	38.0	2,453	-	39.0C	2,519	-
	120	AR2206H	27.5	2,331	-	29.0	2,467	-
	120	AR2208	29.0	2,397	-	31.0	2,508	-
	120	AR2209	33.5	2,443	-	35.5	2,577	-
	120	AR2213SC	37.5	2,470	-	39.0C	2,537	-
25 Winchester Super Short Magnum 24" Barrel								
	115	AR2206H	34.0	2,658	51,600 psi	37.0	2,830	62,200 psi
	115	AR2208	36.0	2,726	53,700 psi	38.7	2,871	62,600 psi
	115	AR2209	42.0	2,806	52,800 psi	45.3C	2,999	63,000 psi
	115	AR2213SC	44.0	2,733	52,100 psi	47.0C	2,883	60,900 psi
	117	AR2206H	35.0	2,723	53,800 psi	37.5	2,858	62,200 psi
	117	AR2208	36.0	2,725	52,700 psi	39.0	2,888	62,200 psi
	117	AR2209	42.0	2,796	52,300 psi	45.0	2,965	62,300 psi

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25 Winchester Super Short Magnum 24" Barrel (cont)								
	117	AR2213SC	44.0	2,731	51,100 psi	47.5C	2,901	61,300 psi
	120	AR2206H	35.0	2,700	53,300 psi	37.7	2,840	61,700 psi
	120	AR2208	36.0	2,702	53,200 psi	39.0	2,878	63,500 psi
	120	AR2209	42.0	2,793	51,000 psi	45.5C	2,981	62,400 psi
	120	AR2213SC	45.0	2,744	51,600 psi	48.0C	2,902	61,100 psi
25-308 24" Barrel								
	60	AR2206	-	-	-	45.00	3,700	-
	60	AR2208	-	-	-	46.50	3,700	-
	60	AR2209	-	-	-	51.00	3,700	-
	87	AR2206	-	-	-	41.00	3,200	-
	87	AR2208	-	-	-	42.50	3,200	-
	87	AR2209	-	-	-	47.50	3,200	-
	100	AR2208	-	-	-	40.50	3,000	-
	100	AR2209	-	-	-	45.50	3,000	-
	120	AR2209	-	-	-	43.50	2,850	-
25-303 24" Barrel								
	87	AR2206	-	-	-	34.00	3,050	-
	87	AR2208	-	-	-	37.00	3,050	-
	87	AR2209	-	-	-	41.00	3,050	-
	100	AR2206	-	-	-	31.00	2,850	-
	100	AR2208	-	-	-	33.50	2,850	-
	100	AR2209	-	-	-	38.00	2,850	-
	117	AR2206	-	-	-	28.00	2,700	-
	117	AR2208	-	-	-	31.00	2,700	-
	117	AR2209	-	-	-	36.00	2,700	-
257 Roberts 24" Barrel								
	60	Bench Mark 2	41.0	3,453	-	43.7	3,671	-
	60	AR2206H	42.0	3,376	-	46.0	3,805	-
	60	AR2209	48.0	3,290	-	51.0	3,612	-
	60	AR2213SC	49.0	2,847	-	53.0	3,382	-
	75	Bench Mark 2	39.0	3,226	-	41.7	3,434	-
	75	AR2206H	40.5	3,201	-	44.0	3,561	-
	75	AR2208	37.0	3,155	-	41.0	3,453	-
	75	AR2209	47.0	3,129	-	50.0	3,422	-
	75	AR2213SC	49.0	2,886	-	53.0	3,307	-
	90	AR2206H	38.5	2,954	-	42.0	3,372	-
	90	AR2208	36.0	2,990	-	40.0	3,269	-
	90	AR2209	44.0	2,890	-	46.0	3,040	-
	90	AR2213SC	48.0	2,786	-	52.0	3,236	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
257 Roberts 24" Barrel (cont)								
	100	AR2206H	35.0	2,661	-	38.0	2,990	-
	100	AR2208	34.0	2,724	-	38.0	2,981	-
	100	AR2209	43.0	2,833	-	45.0	2,970	-
	100	AR2213SC	45.0	2,660	-	49.0	3,010	-
	115	AR2206H	33.0	2,433	-	36.0	2,702	-
	115	AR2208	31.0	2,462	-	35.0	2,701	-
	115	AR2209	41.0	2,660	-	43.0	2,777	-
	115	AR2213SC	43.0	2,479	-	46.0	2,760	-
	125	AR2208	30.0	2,260	-	33.5	2,523	-
	125	AR2209	41.0	2,555	-	43.0	2,680	-
	125	AR2213SC	42.0	2,498	-	45.0	2,677	-
257 Roberts Improved 24" Barrel								
	60	AR2206	-	-	-	49.00	3,650	-
	60	AR2208	-	-	-	50.00	3,650	-
	60	AR2209	-	-	-	53.50	3,650	-
	75	AR2206	-	-	-	48.00	3,500	-
	75	AR2208	-	-	-	49.00	3,500	-
	75	AR2209	-	-	-	52.50	3,500	-
	87-90	AR2206	-	-	-	45.50	3,300	-
	87-90	AR2208	-	-	-	46.50	3,300	-
	87-90	AR2209	-	-	-	51.00	3,300	-
	100	AR2206	-	-	-	42.00	3,100	-
	100	AR2208	-	-	-	43.50	3,100	-
	100	AR2209	-	-	-	48.00	3,100	-
	117-120	AR2208	-	-	-	41.50	2,900	-
	117-120	AR2209	-	-	-	46.00	2,900	-
25/284 26" Barrel								
	75	AR2209	-	-	-	52.00	3,640	-
	75	AR2213SC	-	-	-	58.00	3,604	-
	87	AR2209	-	-	-	50.00	3,400	-
	87	AR2213SC	-	-	-	57.00	3,544	-
	100	AR2209	-	-	-	48.00	3,129	-
	100	AR2213SC	-	-	-	54.00	3,369	-
	117	AR2213SC	-	-	-	52.00	3,025	-
	120	AR2209	-	-	-	44.00	2,916	-
	120	AR2213SC	-	-	-	49.00	2,978	-
	125	AR2209	-	-	-	43.00	2,870	-
	125	AR2213SC	-	-	-	48.00	2,911	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25/06 Remington 24" Barrel								
	75	AR2206H	45.0	3,474	-	48.5	3,642	-
	75	AR2208	46.0	3,454	-	49.7	3,660	-
	75	AR2209	54.0	3,460	-	58.5	3,700	-
	75	AR2213SC	58.0	3,393	-	62.0C	3,599	-
	75	AR2217	58.0	3,135	-	62.0C	3,339	-
	85	AR2206H	41.0	3,176	-	44.5	3,369	-
	85	AR2208	43.0	3,271	-	46.5	3,449	-
	85	AR2209	49.0	3,255	-	53.0	3,445	-
	85	AR2213SC	54.0	3,302	-	58.0	3,473	-
	85	AR2217	58.0	3,218	-	62.0C	3,442	-
	87	AR2206H	43.0	3,243	-	45.5	3,364	-
	87	AR2208	43.0	3,231	-	46.0	3,382	-
	87	AR2209	50.0	3,234	-	54.5	3,409	-
	87	AR2213SC	56.0	3,232	-	60.0	3,421	-
	87	AR2217	58.0	3,176	-	62.0C	3,296	-
	90	AR2206H	41.0	3,128	-	44.0	3,257	-
	90	AR2208	42.0	3,165	-	45.0	3,312	-
	90	AR2209	49.0	3,191	-	53.0	3,370	-
	90	AR2213SC	54.0	3,213	-	58.0	3,481	-
	90	AR2217	58.0	3,142	-	62.0C	3,330	-
	100	AR2206H	40.0	2,921	-	43.0	3,072	-
	100	AR2208	41.0	2,974	-	44.0	3,125	-
	100	AR2209	47.0	3,038	-	50.0	3,155	-
	100	AR2213SC	51.0	3,025	-	54.3	3,172	-
	100	AR2217	56.0	3,055	-	59.7C	3,212	-
	117	AR2206H	37.0	2,641	-	40.0	2,797	-
	117	AR2208	37.0	2,637	-	41.0	2,838	-
	117	AR2209	44.0	2,737	-	47.7	2,923	-
	117	AR2213SC	48.0	2,748	-	52.0	2,937	-
	117	AR2217	55.0	2,936	-	58.5C	3,046	-
	117	AR2225	56.0	2,876	-	60.5C	3,079	-
	120	AR2206H	37.0	2,541	-	40.0	2,694	-
	120	AR2208	38.0	2,584	-	41.0	2,755	-
	120	AR2209	44.0	2,643	-	47.5	2,816	-
	120	AR2213SC	48.0	2,705	-	51.5	2,856	-
	120	AR2217	52.0	2,772	-	55.5	2,902	-
	120	AR2225	56.0	2,806	-	60.0C	2,991	-
	125	AR2213SC	46.0	2,595	-	49.0	2,770	-
	125	AR2217	50.0	2,665	-	53.0	2,800	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
257 Weatherby Magnum 26" Barrel								
	75	AR2209	65.0	3,715	-	70.0	3,905	-
	75	AR2213SC	71.0	3,652	-	75.0	3,841	-
	85	AR2209	63.0	3,544	-	67.0	3,739	-
	85	AR2213SC	68.0	3,498	-	72.0	3,664	-
	100	AR2209	59.0	3,312	-	63.0	3,500	-
	100	AR2213SC	64.0	3,312	-	68.0	3,462	-
	117	AR2209	57.0	3,112	-	60.5	3,266	-
	117	AR2213SC	62.0	3,099	-	66.0	3,252	-
	120	AR2213SC	61.0	3,013	-	65.0	3,184	-
6.5mm x 52 Mannlicher-Carcano 21" Barrel								
	85	AR2206	-	-	-	34.00	2,600	-
	85	AR2208	-	-	-	37.00	2,600	-
	100	AR2206	-	-	-	33.00	2,450	-
	100	AR2208	-	-	-	35.00	2,450	-
	100	AR2209	-	-	-	40.00	2,450	-
	120-125	AR2206	-	-	-	31.00	2,300	-
	120-125	AR2208	-	-	-	33.50	2,300	-
	120-125	AR2209	-	-	-	38.00	2,300	-
	129-130	AR2206	-	-	-	30.00	2,250	-
	129-130	AR2208	-	-	-	32.50	2,250	-
	129-130	AR2209	-	-	-	37.00	2,250	-
	139-140	AR2206	-	-	-	29.00	2,150	-
	139-140	AR2208	-	-	-	31.50	2,150	-
	139-140	AR2209	-	-	-	36.00	2,150	-
	160	AR2206	-	-	-	27.00	2,000	-
	160	AR2208	-	-	-	29.50	2,000	-
	160	AR2209	-	-	-	34.00	2,000	-
	160	AR2213SC	-	-	-	39.00	2,086	-
6.5mm x 54 (Mannlicher-Schoenauer) 18" Barrel								
	100	AR2206	-	-	-	38.00	2,800	-
	100	AR2208	-	-	-	40.00	2,800	-
	120	AR2206	-	-	-	36.50	2,700	-
	120	AR2208	-	-	-	38.50	2,700	-
	120	AR2209	-	-	-	42.50	2,700	-
	129-130	AR2206	-	-	-	35.50	2,500	-
	129-130	AR2208	-	-	-	37.50	2,500	-
	129-130	AR2209	-	-	-	41.50	2,500	-
	140	AR2206	-	-	-	33.50	2,350	-
	140	AR2208	-	-	-	35.50	2,350	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.5mm x 54 (Mannlicher-Schoenauer) 18" Barrel (cont)								
	140	AR2209	-	-	-	39.50	2,350	-
	160	AR2206	-	-	-	31.50	2,100	-
	160	AR2208	-	-	-	33.50	2,100	-
	160	AR2209	-	-	-	37.50	2,100	-
260 Remington 24" Barrel								
	95	Bench Mark 2	40.0	3,190	51,400 psi	43.5	3,391	59,600 psi
	95	AR2206	37.0	3,045	51,200 psi	39.5	3,225	58,400 psi
	95	AR2206H	38.0	3,069	51,300 psi	40.8	3,225	58,500 psi
	95	AR2208	39.0	3,070	50,200 psi	42.0	3,244	58,500 psi
	95	AR2209	47.0	3,135	51,200 psi	49.7	3,284	58,100 psi
	100	Bench Mark 2	38.0	2,981	50,700 psi	41.0	3,171	59,900 psi
	100	AR2206	33.0	2,790	51,150 psi	37.0	3,055	58,750 psi
	100	AR2206H	35.0	2,810	51,300 psi	38.0	2,974	58,800 psi
	100	AR2208	36.5	2,861	52,000 psi	39.5	3,027	58,900 psi
	100	AR2209	42.0	2,946	52,900 psi	45.0	3,077	58,200 psi
	100	AR2213SC	46.0	2,925	52,800 psi	48.8C	3,055	58,600 psi
	107	Bench Mark 2	40.0	3,158	50,900 psi	42.5	3,227	59,500 psi
	107	AR2206	37.0	2,945	51,800 psi	39.5	3,055	58,200 psi
	107	AR2206H	38.0	2,950	51,900 psi	40.7	3,074	58,000 psi
	107	AR2208	38.5	2,947	49,800 psi	41.5	3,125	58,700 psi
	107	AR2209	46.0	2,997	50,400 psi	49.0	3,164	58,700 psi
	107	AR2213SC	50.0	2,963	50,300 psi	51.0C	3,027	54,000 psi
	120	Bench Mark 2	37.0	2,768	51,200 psi	40.0	2,935	59,500 psi
	120	AR2206	34.3	2,555	51,700 psi	37.0	2,795	58,750 psi
	120	AR2206H	35.0	2,664	51,900 psi	38.0	2,813	58,900 psi
	120	AR2208	36.0	2,716	50,300 psi	39.0	2,877	58,300 psi
	120	AR2209	43.5	2,814	51,400 psi	46.5	2,960	58,200 psi
	120	AR2213SC	47.0	2,812	52,100 psi	50.0C	2,954	59,200 psi
	120	AR2217	49.0	2,710	44,600 psi	51.0C	2,810	49,300 psi
	125	AR2206	33.2	2,615	54,150 psi	36.2	2,735	58,800 psi
	125	AR2206H	34.0	2,623	54,300 psi	37.0	2,743	58,900 psi
	125	AR2208	34.5	2,624	51,200 psi	37.5	2,785	58,400 psi
	125	AR2209	41.0	2,714	50,900 psi	44.3	2,867	57,900 psi
	125	AR2213SC	45.0	2,725	51,600 psi	48.0C	2,862	58,000 psi
	125	AR2217	48.0	2,685	46,300 psi	51.0C	2,821	53,300 psi
	140	AR2206	31.3	2,350	50,500 psi	33.5	2,510	58,400 psi
	140	AR2206H	32.0	2,367	50,500 psi	34.3	2,517	58,400 psi
	140	AR2208	34.0	2,469	53,300 psi	36.0	2,578	59,400 psi
	140	AR2209	39.0	2,530	51,900 psi	42.0	2,677	58,800 psi

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
260 Remington 24" Barrel (cont)								
	140	AR2213SC	43.0	2,568	53,000 psi	45.7	2,686	59,000 psi
	140	AR2217	48.0	2,619	51,200 psi	50.5	2,730	57,000 psi
	142	AR2206	33.3	2,480	52,000 psi	35.4	2,590	58,200 psi
	142	AR2206H	34.0	2,486	52,000 psi	36.2	2,597	58,200 psi
	142	AR2208	35.0	2,541	54,000 psi	37.5	2,645	59,100 psi
	142	AR2209	41.5	2,590	50,100 psi	44.5	2,735	58,000 psi
	142	AR2213SC	45.0	2,601	50,900 psi	48.0C	2,747	58,700 psi
	160	AR2209	40.0	2,417	52,100 psi	43.0	2,538	58,200 psi
	160	AR2213SC	43.0	2,419	50,900 psi	46.0	2,540	58,100 psi
	160	AR2217	48.0	2,498	50,500 psi	50.0C	2,595	56,400 psi
6.5mm x 54 Mauser 20" Barrel								
	120-125	AR2206	-	-	-	33.00	2,500	-
	120-125	AR2208	-	-	-	35.00	2,500	-
	140	AR2206	-	-	-	30.00	2,200	-
	140	AR2208	-	-	-	32.00	2,200	-
6.5mm Swedish (6.5mm x 55) 24" Barrel								
	85	AR2206H	40.0	3,031	-	44.0	3,370	-
	85	AR2208	40.0	3,128	-	44.0	3,350	-
	85	AR2209	47.0	2,909	-	52.0C	3,283	-
	100	AR2206H	37.0	2,820	-	41.0	3,033	-
	100	AR2208	38.0	2,892	-	42.0	3,177	-
	100	AR2209	45.0	2,724	-	50.0C	3,172	-
	100	AR2213SC	46.0	2,552	-	51.0C	2,883	-
	120	AR2206H	34.0	2,571	-	37.8	2,715	-
	120	AR2208	35.0	2,579	-	39.0	2,812	-
	120	AR2209	41.5	2,545	-	46.0	2,792	-
	120	AR2213SC	44.5	2,528	-	49.5C	2,802	-
	129	AR2206H	33.0	2,373	-	36.3	2,561	-
	129	AR2208	34.0	2,472	-	37.5	2,664	-
	129	AR2209	40.0	2,430	-	45.5	2,703	-
	129	AR2213SC	44.0	2,449	-	48.5C	2,689	-
	129	AR2217	48.0	2,550	-	51.0	2,707	-
	140	AR2206H	32.5	2,305	-	35.8	2,493	-
	140	AR2208	32.5	2,312	-	36.0	2,528	-
	140	AR2209	39.5	2,418	-	44.0	2,617	-
	140	AR2213SC	42.5	2,382	-	47.0	2,586	-
	140	AR2217	46.5	2,423	-	51.5C	2,651	-
	160	AR2208	32.5	2,173	-	36.0	2,354	-
	160	AR2209	40.0	2,317	-	43.0	2,445	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.5mm Swedish (6.5mm x 55) 24" Barrel (cont)								
	160	AR2213SC	44.0	2,327	-	48.0C	2,524	-
	160	AR2217	45.0	2,265	-	50.0C	2,517	-
6.5mm/06 24" Barrel								
	85	AR2206H	43.0	3,245	49,900 psi	46.5	3,442	60,600 psi
	85	AR2208	48.0	3,453	58,400 psi	52.0	3,588	62,500 psi
	85	AR2209	53.0	3,336	52,300 psi	57.5	3,574	62,300 psi
	95	AR2206H	43.0	3,209	55,400 psi	46.0	3,359	63,000 psi
	95	AR2208	44.0	3,167	51,600 psi	49.0	3,414	63,100 psi
	95	AR2209	50.0	3,204	52,100 psi	54.5	3,436	63,300 psi
	100	AR2206H	42.0	3,083	56,400 psi	44.0	3,205	62,900 psi
	100	AR2208	43.0	3,070	53,000 psi	47.0	3,268	63,300 psi
	100	AR2209	49.0	3,119	53,800 psi	53.0	3,315	63,300 psi
	100	AR2213SC	53.0	3,085	53,200 psi	57.7	3,304	63,400 psi
	120	AR2209	45.0	2,823	54,300 psi	49.0	2,996	63,300 psi
	120	AR2213SC	48.0	2,765	51,400 psi	52.5	2,970	62,300 psi
	120	AR2217	55.0	2,837	53,900 psi	58.5C	2,986	62,700 psi
	129	AR2209	43.0	2,676	51,400 psi	47.0	2,876	62,500 psi
	129	AR2213SC	47.0	2,721	54,100 psi	51.0	2,889	62,900 psi
	129	AR2217	51.0	2,683	53,800 psi	55.5C	2,885	62,700 psi
	140	AR2209	42.0	2,558	52,400 psi	45.5	2,737	62,700 psi
	140	AR2213SC	45.0	2,542	52,300 psi	49.5	2,731	62,300 psi
	140	AR2217	49.0	2,570	52,900 psi	53.5C	2,761	62,600 psi
	142	AR2209	42.0	2,572	51,300 psi	46.0	2,768	62,900 psi
	142	AR2213SC	45.0	2,559	50,000 psi	50.3	2,795	62,900 psi
	142	AR2217	49.0	2,555	49,800 psi	55.0C	2,816	63,300 psi
	160	AR2213SC	46.0	2,461	52,700 psi	50.0	2,625	62,600 psi
	160	AR2217	51.0	2,492	53,600 psi	55.0	2,650	62,400 psi
6.5-284 24" Barrel								
	85	AR2206H	43.0	3,210	-	46.5	3,417	-
	85	AR2208	48.0	3,378	-	52.0	3,587	-
	85	AR2209	53.0	3,260	-	57.5	3,531	-
	95	AR2206H	43.0	3,195	-	46.0	3,318	-
	95	AR2208	44.0	3,165	-	49.0	3,380	-
	95	AR2209	50.0	3,088	-	54.5	3,349	-
	100	AR2206H	42.0	3,058	-	44.0	3,143	-
	100	AR2208	43.0	3,083	-	47.0	3,227	-
	100	AR2209	49.0	3,003	-	53.0	3,242	-
	100	AR2213SC	53.0	2,969	-	57.7	3,211	-
	107	AR2208	42.0	2,970	-	45.8	3,125	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.5-284 24" Barrel (cont)								
	107	AR2209	47.0	2,898	-	51.5	3,118	-
	107	AR2213SC	51.0	2,842	-	55.5	3,084	-
	107	AR2217	56.0	2,808	-	60.0C	2,985	-
	120	AR2209	45.0	2,744	-	49.0	2,897	-
	120	AR2213SC	48.0	2,651	-	52.5	2,871	-
	120	AR2217	55.0	2,743	-	58.5C	2,901	-
	129	AR2209	43.0	2,670	-	47.0	2,863	-
	129	AR2213SC	47.0	2,670	-	51.0	2,859	-
	129	AR2217	51.0	2,638	-	55.5C	2,820	-
	140	AR2209	42.0	2,548	-	45.5	2,720	-
	140	AR2213SC	45.0	2,520	-	49.5	2,722	-
	140	AR2217	49.0	2,503	-	53.5C	2,694	-
	142	AR2209	42.0	2,583	-	46.0	2,735	-
	142	AR2213SC	45.0	2,479	-	50.3	2,714	-
	142	AR2217	49.0	2,436	-	55.0C	2,700	-
	160	AR2213SC	46.0	2,433	-	50.0	2,582	-
	160	AR2217	51.0	2,454	-	55.0	2,622	-
6.5mm Remington Magnum 26" Barrel								
	85	AR2206H	47.0	3,322	-	51.0	3,613	-
	85	AR2209	54.0	3,220	-	57.0	3,564	-
	85	AR2213SC	56.0	3,201	-	61.0	3,570	-
	100	AR2206H	46.0	3,186	-	50.0	3,475	-
	100	AR2209	51.0	3,071	-	55.0	3,327	-
	100	AR2213SC	55.0	3,071	-	60.0	3,416	-
	120	AR2206H	42.5	2,872	-	46.0	3,081	-
	120	AR2209	49.0	2,780	-	52.0	3,080	-
	120	AR2213SC	54.0	2,985	-	59.0	3,286	-
	129	AR2206H	40.5	2,709	-	44.0	2,936	-
	129	AR2209	47.0	2,709	-	51.0	2,994	-
	129	AR2213SC	53.5	2,854	-	58.0	3,155	-
	140	AR2206H	38.5	2,569	-	42.0	2,752	-
	140	AR2209	45.0	2,514	-	49.0	2,780	-
	140	AR2213SC	49.5	2,708	-	54.0	2,943	-
264 Winchester Magnum 26" Barrel								
	85	AR2206H	50.5	3,264	-	55.0	3,625	-
	85	AR2209	59.0	3,396	-	61.0	3,669	-
	85	AR2213SC	67.0	3,304	-	73.0	3,812	-
	85	AR2217	74.0	3,270	-	78.0	3,480	-
	100	AR2206H	49.0	2,970	-	53.0	3,405	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
264 Winchester Magnum 26" Barrel (cont)								
	100	AR2209	56.0	3,194	-	59.0	3,570	-
	100	AR2213SC	65.5	3,239	-	71.0	3,680	-
	100	AR2217	72.0	3,164	-	77.0	3,428	-
	120	AR2209	54.0	3,029	-	57.0	3,190	-
	120	AR2213SC	60.0	3,023	-	65.0	3,369	-
	120	AR2217	67.0	3,059	-	72.0	3,185	-
	129	AR2209	53.0	3,081	-	56.0	3,177	-
	129	AR2213SC	62.0	2,905	-	65.0	3,206	-
	129	AR2217	67.0	3,027	-	71.0	3,187	-
	140	AR2209	50.0	2,766	-	53.0	2,965	-
	140	AR2213SC	56.0	2,794	-	61.0	3,065	-
	140	AR2217	63.0	2,843	-	68.0	3,019	-
	160	AR2209	47.0	2,555	-	50.0	2,686	-
	160	AR2213SC	52.5	2,571	-	57.0	2,886	-
	160	AR2217	61.0	2,538	-	65.0	2,860	-
6.5mm x 68 Schuler 25" Barrel								
	85	AR2209	-	-	-	65.00	3,700	-
	85	AR2213SC	-	-	-	73.00	3,705	-
	100	AR2213SC	-	-	-	71.00	3,547	-
	120	AR2213SC	-	-	-	68.00	3,309	-
	140	AR2213SC	-	-	-	63.00	2,993	-
270/303 24" Barrel								
	100	AR2206	-	-	-	35.00	2,750	-
	100	AR2208	-	-	-	39.00	2,750	-
	100	AR2209	-	-	-	44.00	2,750	-
	130	AR2206	-	-	-	33.00	2,500	-
	130	AR2208	-	-	-	36.50	2,500	-
	130	AR2209	-	-	-	42.50	2,500	-
	150	AR2208	-	-	-	33.50	2,350	-
	150	AR2209	-	-	-	40.00	2,350	-
WARNING: For SMLE Actions, reduce these loads by at least two grains.								
270 Winchester 24" Barrel								
	90	AR2206H	50.0	3,482	-	53.0	3,595	-
	90	AR2208	51.0	3,409	-	55.0	3,596	-
	90	AR2209	58.0	3,401	-	62.0C	3,603	-
	100	AR2206H	47.0	3,298	-	50.0	3,401	-
	100	AR2208	48.0	3,232	-	52.0	3,397	-
	100	AR2209	56.0	3,258	-	59.4	3,401	-
	110	AR2206H	45.0	3,113	-	47.5	3,215	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
270 Winchester 24" Barrel (cont)								
	110	AR2208	43.0	3,072	-	48.7	3,248	-
	110	AR2209	54.0	3,164	-	57.0	3,267	-
	110	AR2213SC	58.0	3,057	-	62.0C	3,214	-
	120	AR2206H	42.0	2,799	-	45.0	2,950	-
	120	AR2208	44.0	2,858	-	47.0	3,010	-
	120	AR2209	51.0	2,886	-	55.0	3,069	-
	120	AR2213SC	58.0	2,918	-	62.0C	3,112	-
	130	AR2206H	42.0	2,782	-	45.0	2,922	-
	130	AR2208	43.0	2,797	-	46.0	2,931	-
	130	AR2209	51.0	2,865	-	54.3	3,012	-
	130	AR2213SC	56.0	2,843	-	60.0C	3,019	-
	130	AR2217	61.0	2,900	-	64.0C	3,025	-
	135	AR2206H	41.0	2,735	-	44.0	2,879	-
	135	AR2208	41.0	2,701	-	45.0	2,902	-
	135	AR2209	50.0	2,834	-	53.5	2,994	-
	135	AR2213SC	55.0	2,812	-	59.5C	3,010	-
	135	AR2217	61.0	2,915	-	63.0C	3,011	-
	140	AR2206H	40.0	2,627	-	42.6	2,768	-
	140	AR2208	41.0	2,623	-	43.7	2,772	-
	140	AR2209	49.0	2,737	-	52.0	2,870	-
	140	AR2213SC	54.0	2,716	-	58.0C	2,888	-
	140	AR2217	59.0	2,771	-	63.0C	2,979	-
	150	AR2209	46.0	2,575	-	49.0	2,724	-
	150	AR2213SC	52.0	2,651	-	55.7	2,804	-
	150	AR2217	55.0	2,689	-	59.0C	2,831	-
	160	AR2209	46.0	2,501	-	49.0	2,646	-
	160	AR2213SC	50.0	2,510	-	54.0	2,673	-
	160	AR2217	55.0	2,614	-	59.0C	2,765	-
	180	AR2213SC	47.0	2,358	-	50.5	2,501	-
	180	AR2217	50.0	2,404	-	54.0	2,540	-
270 Winchester Short Magnum 24" Barrel								
	90	AR2206H	53.0	3,508	52,900 psi	56.5	3,690	62,500 psi
	90	AR2208	57.0	3,610	57,600 psi	60.5	3,734	62,800 psi
	90	AR2209	64.0	3,568	50,000 psi	67.5	3,733	62,800 psi
	90	AR2213SC	69.0	3,525	54,900 psi	73.0C	3,703	63,400 psi
	100	AR2206H	51.0	3,338	53,200 psi	54.5	3,505	62,500 psi
	100	AR2208	55.0	3,416	55,700 psi	58.5	3,573	63,300 psi
	100	AR2209	62.0	3,458	55,000 psi	65.5	3,585	62,900 psi
	100	AR2213SC	67.0	3,352	52,900 psi	71.0C	3,542	62,700 psi

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
270 Winchester Short Magnum 24" Barrel (cont)								
	110	AR2208	53.0	3,276	57,000 psi	56.0	3,406	63,200 psi
	110	AR2209	59.0	3,287	55,900 psi	63.0	3,436	63,200 psi
	110	AR2213SC	64.0	3,265	56,300 psi	67.5	3,404	63,000 psi
	110	AR2217	71.0	3,279	55,400 psi	73.0C	3,360	60,400 psi
	120	AR2208	51.0	3,079	56,400 psi	53.5	3,222	63,100 psi
	120	AR2209	57.0	3,120	55,900 psi	60.5	3,267	63,200 psi
	120	AR2213SC	62.0	3,120	57,000 psi	65.5	3,257	63,200 psi
	120	AR2217	69.0	3,176	57,600 psi	72.5C	3,292	63,100 psi
	130	AR2208	51.0	3,040	56,400 psi	54.0	3,169	63,200 psi
	130	AR2209	57.0	3,093	56,600 psi	60.5	3,226	63,500 psi
	130	AR2213SC	63.0	3,085	56,300 psi	67.0	3,228	63,400 psi
	130	AR2217	71.0	3,100	55,400 psi	73.0C	3,168	58,700 psi
	135	AR2208	51.0	3,000	54,800 psi	54.0	3,134	63,000 psi
	135	AR2209	58.0	3,093	57,000 psi	61.5	3,211	63,100 psi
	135	AR2213SC	62.0	3,056	55,400 psi	65.5	3,192	62,900 psi
	135	AR2217	69.0	3,056	54,400 psi	73.0C	3,205	62,600 psi
	140	AR2209	54.0	2,928	54,500 psi	58.0	3,087	63,100 psi
	140	AR2213SC	59.0	2,974	57,000 psi	62.5	3,085	63,000 psi
	140	AR2217	66.0	2,984	55,700 psi	70.0C	3,137	63,500 psi
	140	AR2225	68.0	3,016	53,200 psi	71.0C	3,165	61,300 psi
	150	AR2209	53.0	2,846	55,600 psi	56.5	2,978	63,000 psi
	150	AR2213SC	56.0	2,804	54,500 psi	60.0	2,962	63,100 psi
	150	AR2217	64.0	2,864	54,600 psi	67.5C	3,001	62,800 psi
	150	AR2225	66.0	2,908	53,300 psi	70.0C	3,071	63,000 psi
	160	AR2209	52.0	2,735	56,100 psi	55.0	2,834	62,600 psi
	160	AR2213SC	57.0	2,784	58,400 psi	60.0	2,877	63,300 psi
	160	AR2217	63.0	2,802	57,400 psi	66.5	2,913	63,200 psi
	160	AR2225	65.0	2,826	53,400 psi	68.5	2,989	62,600 psi
	180	AR2213SC	53.0	2,561	56,300 psi	56.0	2,667	62,800 psi
	180	AR2217	59.0	2,590	56,000 psi	63.0	2,718	62,800 psi
	180	AR2225	62.0	2,631	50,900 psi	65.0C	2,811	63,000 psi
	180	AR2218	67.0	2,565	49,800 psi	70.0C	2,732	61,700 psi
270 Weatherby Magnum 26" Barrel								
	90	AR2206H	63.0	3,388	-	67.0	3,647	-
	90	AR2209	66.0	3,317	-	70.0	3,631	-
	90	AR2213SC	72.0	3,386	-	78.0	3,631	-
	90	AR2217	78.0	3,183	-	81.0	3,269	-
	100	AR2206H	63.0	3,377	-	66.0	3,597	-
	100	AR2209	65.0	3,282	-	69.0	3,509	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
270 Weatherby Magnum 26" Barrel (cont)								
	100	AR2213SC	74.0	3,482	-	77.0	3,666	-
	100	AR2217	77.0	3,062	-	81.0	3,287	-
	110	AR2209	64.0	3,214	-	68.0	3,477	-
	110	AR2213SC	73.0	3,397	-	76.0	3,482	-
	110	AR2217	76.0	3,045	-	81.0	3,242	-
	130	AR2209	62.0	3,110	-	66.0	3,262	-
	130	AR2213SC	67.0	3,087	-	70.0	3,205	-
	130	AR2217	76.0	2,941	-	81.0	3,259	-
	140	AR2209	60.0	2,926	-	64.0	3,140	-
	140	AR2213SC	65.0	2,904	-	68.0	3,112	-
	140	AR2217	75.0	2,849	-	80.0	3,145	-
	150	AR2209	60.0	2,846	-	63.0	2,986	-
	150	AR2213SC	65.0	2,872	-	68.0	3,057	-
	150	AR2217	75.0	2,902	-	79.0	3,132	-
	160	AR2209	58.0	2,666	-	61.0	2,738	-
	160	AR2213SC	62.0	2,674	-	65.0	2,901	-
	160	AR2217	74.0	2,872	-	78.0	3,051	-
7-30 Waters 24" Barrel								
	120	AR2219	26.0	2,274	-	29.0	2,497	-
	120	Bench Mark 2	26.5	2,267	-	29.5	2,474	-
	120	AR2206H	31.0	2,413	-	34.5	2,654	-
	120	AR2208	34.0	2,480	-	37.0C	2,653	-
	120	AR2209	37.0	2,458	-	41.0	2,724	-
	120	AR2213SC	37.0	2,311	-	41.0	2,561	-
	139	AR2219	24.0	1,981	-	27.0	2,217	-
	139	Bench Mark 2	25.0	2,048	-	28.0	2,220	-
	139	AR2206H	30.0	2,250	-	33.0	2,435	-
	139	AR2208	32.0	2,251	-	35.5C	2,472	-
	139	AR2209	34.5	2,195	-	38.0	2,418	-
	139	AR2213SC	35.5	2,170	-	39.0	2,384	-
	154	AR2209	33.5	2,090	-	37.0	2,308	-
	154	AR2213SC	33.5	1,957	-	37.0	2,161	-
7mm-08 Remington 24" Barrel								
	100	AR2219	37.5	2,917	-	40.0	3,105	-
	100	Bench Mark 2	40.0	2,968	-	42.5	3,144	-
	100	AR2206H	41.0	3,037	-	45.0	3,286	-
	100	AR2208	42.0	3,060	-	45.7	3,277	-
	115	AR2219	39.0	2,951	-	41.0	3,053	-
	115	Bench Mark 2	40.0	2,887	-	43.5	3,103	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm-08 Remington 24" Barrel (cont)								
	115	AR2206H	42.0	3,007	-	45.0	3,172	-
	115	AR2208	43.0	3,019	-	46.3	3,216	-
	120	Bench Mark 2	39.0	2,812	-	41.3	2,968	-
	120	AR2206H	41.0	2,931	-	43.7	3,085	-
	120	AR2208	42.5	2,996	-	45.0	3,117	-
	120	AR2209	48.0	2,895	-	50.0C	3,039	-
	130	Bench Mark 2	37.0	2,701	-	39.8	2,861	-
	130	AR2206H	39.5	2,824	-	42.0	2,957	-
	130	AR2208	40.0	2,830	-	43.5	3,004	-
	130	AR2209	47.0	2,871	-	50.0C	2,998	-
	139	Bench Mark 2	37.5	2,624	-	40.5	2,799	-
	139	AR2206H	39.0	2,678	-	42.5	2,857	-
	139	AR2208	40.5	2,721	-	43.5	2,877	-
	139	AR2209	47.0	2,729	-	50.0C	2,906	-
	140	Bench Mark 2	36.0	2,564	-	38.3	2,688	-
	140	AR2206H	38.0	2,618	-	40.5	2,769	-
	140	AR2208	39.5	2,695	-	42.2	2,819	-
	140	AR2209	45.0	2,692	-	48.0C	2,868	-
	145	Bench Mark 2	36.0	2,487	-	39.5	2,693	-
	145	AR2206H	38.5	2,599	-	41.0	2,728	-
	145	AR2208	39.0	2,639	-	41.5	2,745	-
	145	AR2209	45.0	2,647	-	48.0C	2,801	-
	150	Bench Mark 2	36.0	2,526	-	38.5	2,667	-
	150	AR2206H	37.0	2,546	-	40.5	2,723	-
	150	AR2208	38.5	2,597	-	41.3	2,731	-
	150	AR2209	45.0	2,640	-	48.5C	2,823	-
	154	Bench Mark 2	36.0	2,467	-	38.5	2,597	-
	154	AR2206H	37.0	2,484	-	39.5	2,592	-
	154	AR2208	38.5	2,530	-	41.2	2,666	-
	154	AR2209	45.0	2,594	-	48.0C	2,743	-
	154	AR2213SC	48.0	2,550	-	49.5C	2,625	-
	160	Bench Mark 2	36.0	2,457	-	38.5	2,592	-
	160	AR2206H	35.0	2,420	-	38.5	2,530	-
	160	AR2208	36.5	2,451	-	39.0	2,562	-
	160	AR2209	43.0	2,522	-	46.0	2,665	-
	160	AR2213SC	47.5	2,547	-	49.5C	2,627	-
	162	Bench Mark 2	36.0	2,441	-	38.0	2,557	-
	162	AR2206H	37.0	2,462	-	39.5	2,600	-
	162	AR2208	38.5	2,504	-	41.0	2,644	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm-08 Remington 24" Barrel (cont)								
	162	AR2209	45.0	2,568	-	48.0C	2,714	-
	162	AR2213SC	47.5	2,501	-	48.5C	2,555	-
	168	Bench Mark 2	36.0	2,389	-	38.0	2,517	-
	168	AR2206H	36.5	2,390	-	39.0	2,504	-
	168	AR2208	37.5	2,430	-	40.0	2,540	-
	168	AR2209	44.5	2,498	-	47.2C	2,637	-
	168	AR2213SC	47.0	2,438	-	49.0C	2,545	-
	175	Bench Mark 2	34.0	2,202	-	36.5	2,333	-
	175	AR2206H	35.0	2,240	-	37.5	2,354	-
	175	AR2208	35.0	2,231	-	37.5	2,344	-
	175	AR2209	42.0	2,345	-	45.0C	2,491	-
	175	AR2213SC	47.0	2,443	-	49.0C	2,516	-
7mm Shooting Times Eastener (7mm STE) 22" Barrel								
	120	AR2206H	37.0	2,529	-	41.0	2,909	-
	120	AR2209	44.0	2,503	-	49.0	2,873	-
	139	AR2209	43.0	2,271	-	48.0	2,676	-
7mm Mauser (7mm x 57) 24" Barrel								
	100	Bench Mark 2	41.5	2,987	-	44.3	3,138	-
	100	AR2206H	44.0	3,095	-	46.0	3,208	-
	100	AR2208	45.0	3,123	-	48.0	3,250	-
	100	AR2209	51.0	2,993	-	54.0C	3,166	-
	110	Bench Mark 2	41.0	2,874	-	44.0	3,034	-
	110	AR2206H	43.0	2,939	-	46.0	3,078	-
	110	AR2208	41.0	2,902	-	45.5	3,081	-
	110	AR2209	51.0	2,865	-	54.0C	3,046	-
	120	Bench Mark 2	39.0	2,743	-	41.5	2,863	-
	120	AR2206H	40.0	2,732	-	42.0	2,859	-
	120	AR2208	41.0	2,820	-	44.0	2,979	-
	120	AR2209	48.0	2,790	-	51.0C	2,945	-
	120	AR2213SC	50.0	2,650	-	52.5C	2,777	-
	130	Bench Mark 2	39.0	2,674	-	41.2	2,765	-
	130	AR2206H	38.0	2,579	-	41.0	2,704	-
	130	AR2208	39.0	2,678	-	42.0	2,800	-
	130	AR2209	47.0	2,682	-	50.0	2,848	-
	140	Bench Mark 2	35.5	2,441	-	38.0	2,571	-
	140	AR2206H	35.0	2,376	-	37.5	2,530	-
	140	AR2208	35.0	2,368	-	37.7	2,516	-
	140	AR2209	43.0	2,530	-	46.5	2,682	-
	140	AR2213SC	47.0	2,520	-	49.5C	2,719	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Mauser (7mm x 57) 24" Barrel (cont)								
	150	Bench Mark 2	34.0	2,291	-	36.0	2,365	-
	150	AR2206H	34.0	2,271	-	36.0	2,383	-
	150	AR2208	34.0	2,265	-	36.0	2,372	-
	150	AR2209	41.0	2,364	-	44.0	2,513	-
	150	AR2213SC	45.0	2,411	-	48.0	2,542	-
	160	Bench Mark 2	32.5	2,174	-	34.7	2,284	-
	160	AR2206H	33.0	2,165	-	34.5	2,245	-
	160	AR2208	33.0	2,160	-	35.0	2,261	-
	160	AR2209	40.0	2,314	-	42.5	2,399	-
	160	AR2213SC	43.0	2,311	-	46.0	2,415	-
	168	Bench Mark 2	33.5	2,212	-	36.0	2,336	-
	168	AR2206H	33.0	2,118	-	34.5	2,211	-
	168	AR2208	34.5	2,232	-	37.5	2,404	-
	168	AR2209	40.0	2,267	-	42.5	2,378	-
	168	AR2213SC	43.0	2,244	-	46.0	2,393	-
	168	AR2217	49.0	2,338	-	52.0C	2,485	-
	175	AR2208	31.0	2,005	-	35.0	2,178	-
	175	AR2209	35.0	2,066	-	37.0	2,159	-
	175	AR2213SC	37.0	2,098	-	40.0	2,201	-
	175	AR2217	42.0	2,038	-	44.5	2,239	-
280 Remington (7mm Remington Express) 24" Barrel								
	100	AR2206H	47.0	3,226	-	50.5	3,418	-
	100	AR2208	48.0	3,254	-	51.3	3,433	-
	100	AR2209	56.0	3,167	-	60.5	3,379	-
	100	AR2213SC	59.0	3,053	-	63.0C	3,266	-
	115	AR2206H	46.0	3,033	-	49.0	3,175	-
	115	AR2208	46.0	3,040	-	49.0	3,170	-
	115	AR2209	54.0	3,017	-	58.5	3,234	-
	115	AR2213SC	58.0	3,014	-	62.0C	3,190	-
	120	AR2206H	44.0	2,904	-	47.0	3,020	-
	120	AR2208	44.0	2,886	-	47.2	3,032	-
	120	AR2209	52.0	2,895	-	56.0	3,114	-
	120	AR2213SC	58.0	2,931	-	62.0C	3,112	-
	130	AR2206H	42.0	2,732	-	45.3	2,881	-
	130	AR2208	42.0	2,727	-	45.5	2,890	-
	130	AR2209	50.0	2,819	-	53.2	2,939	-
	130	AR2213SC	56.0	2,846	-	59.0C	3,001	-
	140	AR2206H	42.0	2,711	-	45.2	2,830	-
	140	AR2208	42.0	2,674	-	45.5	2,838	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
280 Remington (7mm Remington Express) 24" Barrel (cont)								
	140	AR2209	50.0	2,756	-	53.5	2,918	-
	140	AR2213SC	54.0	2,732	-	58.5	2,927	-
	145	AR2206H	38.0	2,434	-	41.0	2,596	-
	145	AR2208	39.0	2,469	-	43.0	2,690	-
	145	AR2209	45.0	2,553	-	48.8	2,714	-
	145	AR2213SC	48.0	2,579	-	53.0	2,727	-
	150	AR2206H	38.0	2,430	-	41.5	2,588	-
	150	AR2208	39.0	2,485	-	42.0	2,611	-
	150	AR2209	46.0	2,550	-	49.7	2,700	-
	150	AR2213SC	50.0	2,579	-	53.7	2,709	-
	150	AR2217	56.0	2,647	-	60.0C	2,797	-
	160	AR2206H	38.0	2,341	-	41.5	2,535	-
	160	AR2208	39.0	2,384	-	42.5	2,555	-
	160	AR2209	46.0	2,441	-	49.5	2,610	-
	160	AR2213SC	51.0	2,464	-	55.0	2,660	-
	160	AR2217	57.0	2,517	-	61.0C	2,714	-
	162	AR2206H	38.0	2,396	-	41.5	2,567	-
	162	AR2208	39.0	2,443	-	42.0	2,573	-
	162	AR2209	46.0	2,468	-	49.5	2,614	-
	162	AR2213SC	51.0	2,517	-	54.5	2,644	-
	162	AR2217	56.0	2,526	-	60.0C	2,711	-
	168	AR2206H	38.0	2,329	-	41.2	2,468	-
	168	AR2208	40.0	2,424	-	42.2	2,523	-
	168	AR2209	46.0	2,422	-	50.0	2,586	-
	168	AR2213SC	51.0	2,462	-	54.5	2,605	-
	168	AR2217	56.0	2,506	-	60.0C	2,700	-
	175	AR2209	44.0	2,343	-	46.5	2,447	-
	175	AR2213SC	48.0	2,362	-	51.0	2,477	-
	175	AR2217	54.0	2,502	-	57.0C	2,583	-
284 Winchester 24" Barrel								
	100	AR2206H	47.0	3,213	-	51.5	3,428	-
	100	AR2208	51.0	3,242	-	54.0	3,435	-
	100	AR2209	55.0	3,096	-	60.0C	3,368	-
	100	AR2213SC	56.0	2,924	-	60.0	3,145	-
	115	AR2206H	45.0	3,000	-	50.0	3,245	-
	115	AR2208	49.0	3,096	-	53.0	3,281	-
	115	AR2209	54.0	3,008	-	59.0C	3,305	-
	120	AR2206H	43.0	2,880	-	48.0	3,120	-
	120	AR2208	45.0	2,919	-	50.5	3,158	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
284 Winchester 24" Barrel (cont)								
	120	AR2209	53.0	3,017	-	57.0C	3,174	-
	120	AR2213SC	56.0	2,846	-	60.0C	3,018	-
	130	AR2206H	44.0	2,853	-	47.5	2,984	-
	130	AR2208	45.0	2,844	-	49.7	3,026	-
	130	AR2209	53.0	2,920	-	57.0C	3,095	-
	130	AR2213SC	56.0	2,788	-	60.0C	2,923	-
	139	AR2206H	43.0	2,811	-	47.0	2,943	-
	139	AR2208	45.0	2,777	-	49.5	2,996	-
	139	AR2209	52.0	2,840	-	57.0C	3,079	-
	139	AR2213SC	56.0	2,760	-	60.0C	2,923	-
	145	AR2206H	43.0	2,736	-	46.5	2,856	-
	145	AR2208	45.0	2,771	-	49.0	2,905	-
	145	AR2209	50.0	2,743	-	55.0	2,964	-
	145	AR2213SC	55.0	2,733	-	60.0C	2,945	-
	160	AR2206H	40.0	2,389	-	43.5	2,527	-
	160	AR2208	42.0	2,436	-	45.8	2,595	-
	160	AR2209	47.0	2,545	-	51.0C	2,667	-
	160	AR2213SC	50.0	2,448	-	55.0C	2,624	-
	168	AR2206H	40.0	2,531	-	44.0	2,689	-
	168	AR2208	42.0	2,576	-	47.0	2,736	-
	168	AR2209	50.0	2,668	-	53.5C	2,822	-
	168	AR2213SC	53.0	2,602	-	58.0C	2,807	-
	175	AR2208	42.0	2,413	-	46.0	2,582	-
	175	AR2209	47.0	2,483	-	51.5C	2,649	-
	175	AR2213SC	52.0	2,482	-	57.0C	2,695	-
	195	AR2209	43.0	2,233	-	46.0	2,380	-
	195	AR2213SC	47.0	2,282	-	50.0	2,414	-
7mm Remington Short Action Ultra Magnum 24" Barrel								
	100	AR2206H	53.0	3,450	53,900 psi	57.0	3,631	62,800 psi
	100	AR2208	56.0	3,418	52,600 psi	60.0	3,626	63,000 psi
	100	AR2209	63.0	3,424	52,500 psi	66.5C	3,622	63,100 psi
	110	AR2206H	53.0	3,351	55,400 psi	56.5	3,494	62,700 psi
	110	AR2208	54.0	3,295	52,500 psi	59.0	3,513	63,200 psi
	110	AR2209	61.0	3,263	49,400 psi	65.0	3,499	62,600 psi
	115	AR2206H	51.0	3,211	55,700 psi	54.0	3,336	62,400 psi
	115	AR2208	54.0	3,234	54,300 psi	58.0	3,402	62,800 psi
	115	AR2209	60.0	3,196	51,100 psi	64.0	3,413	63,200 psi
	115	AR2213SC	65.0	3,212	53,800 psi	68.0C	3,342	61,400 psi
	120	AR2208	53.0	3,153	55,900 psi	56.5	3,298	63,200 psi

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Remington Short Action Ultra Magnum 24" Barrel (cont)								
	120	AR2209	59.0	3,149	54,400 psi	63.0	3,330	63,500 psi
	120	AR2213SC	64.0	3,128	52,200 psi	67.5C	3,281	62,800 psi
	130	AR2208	51.0	3,057	55,700 psi	54.0	3,190	62,900 psi
	130	AR2209	57.0	3,060	53,700 psi	60.5	3,222	62,600 psi
	130	AR2213SC	61.0	3,017	52,300 psi	65.0	3,192	62,600 psi
	140	AR2208	50.0	2,945	56,500 psi	53.5	3,068	62,300 psi
	140	AR2209	56.0	2,910	50,600 psi	60.0	3,122	63,200 psi
	140	AR2213SC	61.0	2,928	52,800 psi	64.5C	3,099	63,100 psi
	145	AR2208	49.0	2,865	56,100 psi	52.5	2,999	63,400 psi
	145	AR2209	55.0	2,943	54,000 psi	58.5	3,093	62,800 psi
	145	AR2213SC	59.0	2,909	52,300 psi	63.0	3,094	63,100 psi
	150	AR2209	53.5	2,837	53,500 psi	57.0	2,984	62,800 psi
	150	AR2213SC	58.0	2,823	52,800 psi	61.5	2,987	63,000 psi
	150	AR2217	66.0	2,873	53,500 psi	68.0C	2,967	59,300 psi
	154	AR2209	53.0	2,805	54,500 psi	56.5	2,947	62,900 psi
	154	AR2213SC	58.0	2,824	55,000 psi	61.5	2,947	62,700 psi
	154	AR2217	65.0	2,866	55,700 psi	68.0C	2,960	61,900 psi
	160	AR2209	53.0	2,774	55,200 psi	56.5	2,914	63,100 psi
	160	AR2213SC	57.0	2,730	53,800 psi	60.5	2,900	62,600 psi
	160	AR2217	63.0	2,772	53,600 psi	67.0C	2,931	63,300 psi
	162	AR2209	52.0	2,760	54,700 psi	55.5	2,879	62,500 psi
	162	AR2213SC	56.5	2,751	55,100 psi	60.0	2,887	63,100 psi
	162	AR2217	64.0	2,793	54,400 psi	67.0C	2,902	60,900 psi
	168	AR2209	51.0	2,666	51,800 psi	56.0	2,855	62,900 psi
	168	AR2213SC	56.0	2,682	52,400 psi	60.5	2,848	62,800 psi
	168	AR2217	64.0	2,770	55,100 psi	67.0C	2,874	61,200 psi
	175	AR2209	50.0	2,619	53,900 psi	54.5	2,775	63,100 psi
	175	AR2213SC	54.0	2,627	54,300 psi	58.0	2,760	62,900 psi
	175	AR2217	61.0	2,658	54,500 psi	65.5C	2,817	62,800 psi
	175	AR2225	62.0	2,686	51,000 psi	66.0C	2,863	62,700 psi
7mm Winchester Short Magnum 24" Barrel								
	100	AR2206H	54.0	3,442	56,100 psi	57.5	3,590	62,500 psi
	100	AR2208	56.0	3,392	54,100 psi	60.5	3,588	62,400 psi
	100	AR2209	65.0	3,388	51,800 psi	70.0	3,647	63,200 psi
	100	AR2213SC	70.0	3,367	52,200 psi	74.0C	3,546	60,600 psi
	110	AR2206H	53.0	3,229	52,500 psi	57.0	3,417	62,300 psi
	110	AR2208	56.0	3,320	56,200 psi	60.0	3,458	62,500 psi
	110	AR2209	65.0	3,323	52,600 psi	70.0	3,553	63,300 psi
	110	AR2213SC	68.0	3,225	51,300 psi	73.0	3,465	62,600 psi

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Winchester Short Magnum 24" Barrel (cont)								
	115	AR2206H	51.0	3,143	54,700 psi	55.0	3,309	62,700 psi
	115	AR2208	54.0	3,220	57,000 psi	57.5	3,360	63,800 psi
	115	AR2209	62.0	3,278	56,400 psi	66.5	3,441	63,500 psi
	115	AR2213SC	65.0	3,179	53,700 psi	70.0	3,372	62,900 psi
	120	AR2206H	50.0	3,059	51,600 psi	54.0	3,262	62,500 psi
	120	AR2208	53.0	3,155	56,300 psi	57.0	3,311	63,500 psi
	120	AR2209	61.0	3,206	54,800 psi	65.5	3,387	63,500 psi
	120	AR2213SC	65.0	3,159	55,100 psi	69.5	3,335	63,400 psi
	130	AR2206H	49.0	2,969	54,500 psi	53.0	3,136	63,000 psi
	130	AR2208	51.5	3,029	56,200 psi	55.2	3,183	64,000 psi
	130	AR2209	57.0	3,048	54,500 psi	61.0	3,213	62,800 psi
	130	AR2213SC	62.0	3,041	55,000 psi	66.0	3,202	63,200 psi
	130	AR2217	67.0	3,018	52,300 psi	72.0C	3,208	61,600 psi
	140	AR2206H	49.0	2,873	54,100 psi	52.3	3,024	63,000 psi
	140	AR2208	51.0	2,909	54,100 psi	54.5	3,063	62,600 psi
	140	AR2209	58.0	2,979	53,700 psi	61.5	3,133	61,900 psi
	140	AR2213SC	62.0	2,957	53,600 psi	66.0	3,116	62,000 psi
	140	AR2217	69.0	2,995	53,400 psi	72.0C	3,091	59,000 psi
	140	AR2225	69.0	2,888	47,100 psi	72.0C	3,046	54,300 psi
	145	AR2206H	47.0	2,779	55,100 psi	50.5	2,922	62,300 psi
	145	AR2208	50.0	2,872	57,100 psi	53.3	3,001	64,000 psi
	145	AR2209	55.0	2,898	55,700 psi	58.7	3,040	62,600 psi
	145	AR2213SC	59.0	2,890	55,800 psi	63.0	3,044	63,400 psi
	145	AR2217	65.0	2,904	54,000 psi	70.0C	3,082	62,900 psi
	150	AR2206H	48.0	2,782	54,000 psi	51.5	2,930	62,300 psi
	150	AR2208	51.0	2,852	55,700 psi	55.0	3,000	63,400 psi
	150	AR2209	59.0	2,923	54,600 psi	63.0	3,080	62,900 psi
	150	AR2213SC	63.0	2,902	53,700 psi	67.3	3,066	62,500 psi
	150	AR2217	68.0	2,899	51,300 psi	72.0C	3,031	58,600 psi
	150	AR2225	68.0	2,824	45,600 psi	72.0C	2,987	53,000 psi
	154	AR2206H	46.0	2,658	55,200 psi	49.5	2,799	63,000 psi
	154	AR2208	48.0	2,705	55,000 psi	52.0	2,854	62,800 psi
	154	AR2209	54.0	2,775	54,500 psi	57.7	2,920	62,600 psi
	154	AR2213SC	58.0	2,779	54,100 psi	62.5	2,942	62,900 psi
	154	AR2217	64.0	2,831	55,100 psi	68.5C	2,975	62,500 psi
	154	AR2225	66.0	2,833	50,000 psi	71.0C	3,040	61,700 psi
	160	AR2206H	46.0	2,614	52,500 psi	49.0	2,762	62,600 psi
	160	AR2208	48.0	2,676	54,100 psi	51.3	2,823	62,100 psi
	160	AR2209	56.0	2,782	54,600 psi	59.5	2,918	62,200 psi

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Winchester Short Magnum 24" Barrel (cont)								
	160	AR2213SC	59.0	2,757	54,200 psi	63.5	2,921	62,600 psi
	160	AR2217	65.0	2,801	54,300 psi	69.5C	2,956	62,800 psi
	160	AR2225	66.0	2,793	51,200 psi	70.0C	2,958	59,800 psi
	162	AR2206H	46.0	2,645	54,800 psi	49.0	2,773	62,700 psi
	162	AR2208	48.0	2,691	54,900 psi	51.5	2,830	62,900 psi
	162	AR2209	54.0	2,759	53,700 psi	58.0	2,909	62,900 psi
	162	AR2213SC	58.0	2,772	55,500 psi	62.0	2,915	62,800 psi
	162	AR2217	64.0	2,816	55,600 psi	69.0C	2,969	63,400 psi
	162	AR2225	66.0	2,836	53,300 psi	70.5C	3,007	62,500 psi
	168	AR2206H	46.0	2,615	55,000 psi	48.7	2,732	62,600 psi
	168	AR2208	48.0	2,666	55,100 psi	51.0	2,788	63,200 psi
	168	AR2209	55.0	2,747	55,900 psi	58.5	2,865	62,300 psi
	168	AR2213SC	59.0	2,759	56,200 psi	63.0	2,892	63,400 psi
	168	AR2217	65.0	2,759	54,000 psi	69.0C	2,907	61,600 psi
	168	AR2225	66.0	2,757	50,900 psi	70.0C	2,921	59,500 psi
	175	AR2209	49.0	2,545	55,500 psi	52.5	2,672	62,200 psi
	175	AR2213SC	54.0	2,618	58,100 psi	57.5	2,733	63,900 psi
	175	AR2217	58.0	2,635	56,600 psi	62.0C	2,764	63,100 psi
	175	AR2225	60.0	2,651	53,000 psi	64.0C	2,800	61,200 psi
7mm x 61 Sharp & Hart 24" Barrel								
	120	AR2206	-	-	-	54.50	3,250	-
	120	AR2208	-	-	-	57.50	3,250	-
	120	AR2209	-	-	-	64.00	3,250	-
	139-140	AR2206	-	-	-	53.00	3,100	-
	139-140	AR2208	-	-	-	56.00	3,100	-
	139-140	AR2209	-	-	-	62.50	3,100	-
	150	AR2206	-	-	-	52.00	3,000	-
	150	AR2208	-	-	-	55.00	3,000	-
	150	AR2209	-	-	-	61.50	3,000	-
	160-162	AR2206	-	-	-	51.00	2,800	-
	160-162	AR2208	-	-	-	54.00	2,800	-
	160-162	AR2209	-	-	-	60.50	2,800	-
	175	AR2208	-	-	-	52.00	2,700	-
	175	AR2209	-	-	-	59.00	2,700	-
7mm Remington Magnum 24" Barrel								
	100	AR2208	53.0	3,193	-	59.0	3,487	-
	100	AR2209	65.0	3,334	-	69.0	3,494	-
	100	AR2213SC	71.0	3,316	-	75.0	3,499	-
	110	AR2208	54.0	3,174	-	58.5	3,356	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Remington Magnum 24" Barrel (cont)								
	110	AR2209	65.0	3,233	-	68.5	3,357	-
	110	AR2213SC	68.0	3,213	-	73.0	3,367	-
	120	AR2208	53.0	3,021	-	57.0	3,218	-
	120	AR2209	62.0	3,106	-	65.0	3,226	-
	120	AR2213SC	65.0	3,095	-	68.5	3,236	-
	130	AR2208	51.0	2,877	-	54.0	2,998	-
	130	AR2209	58.0	2,953	-	61.5	3,082	-
	130	AR2213SC	63.0	2,952	-	66.0	3,051	-
	140	AR2209	56.0	2,808	-	59.0	2,927	-
	140	AR2213SC	61.0	2,841	-	64.0	2,950	-
	140	AR2217	67.0	2,934	-	70.0	3,036	-
	140	AR2225	71.0	2,955	-	75.0C	3,107	-
	150	AR2209	55.0	2,781	-	57.0	2,859	-
	150	AR2213SC	59.0	2,775	-	62.0	2,986	-
	150	AR2217	65.0	2,835	-	68.0	2,936	-
	150	AR2225	68.0	2,818	-	72.5C	2,998	-
	160	AR2209	53.0	2,651	-	55.5	2,745	-
	160	AR2213SC	58.0	2,695	-	60.0	2,787	-
	160	AR2217	63.0	2,729	-	66.0	2,839	-
	160	AR2225	65.0	2,756	-	69.5C	2,915	-
	162	AR2209	55.0	2,677	-	58.0	2,799	-
	162	AR2213SC	60.0	2,731	-	64.0	2,871	-
	162	AR2217	67.0	2,800	-	70.0	2,905	-
	162	AR2225	69.0	2,787	-	73.5C	2,963	-
	170	AR2209	58.0	2,701	-	60.0	2,767	-
	170	AR2213SC	63.0	2,749	-	65.0	2,806	-
	170	AR2217	69.0	2,744	-	71.0	2,806	-
	170	AR2225	71.0	2,752	-	75.0C	2,899	-
	175	AR2209	51.0	2,504	-	54.0	2,617	-
	175	AR2213SC	55.0	2,532	-	58.0	2,660	-
	175	AR2217	61.0	2,567	-	64.5	2,692	-
	175	AR2225	64.0	2,650	-	68.0	2,800	-
7mm Weatherby Magnum 24" Barrel								
	140	AR2209	64.0	3,046	-	68.5	3,248	-
	140	AR2213SC	69.0	3,023	-	74.0	3,258	-
	140	AR2217	75.0	3,104	-	79.0C	3,273	-
	150	AR2209	64.0	3,012	-	68.0	3,180	-
	150	AR2213SC	68.0	2,973	-	72.0	3,152	-
	150	AR2217	75.0	3,073	-	79.0C	3,223	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Weatherby Magnum 24" Barrel (cont)								
	160	AR2209	61.0	2,786	-	65.0	2,950	-
	160	AR2213SC	66.0	2,816	-	70.0	2,971	-
	160	AR2217	71.0	2,859	-	75.0C	2,994	-
	175	AR2209	60.0	2,755	-	63.7	2,899	-
	175	AR2213SC	63.0	2,724	-	67.5	2,895	-
	175	AR2217	70.0	2,844	-	74.7C	3,022	-
7mm Shooting Times Westerner 24" Barrel								
	120	AR2209	69.0	3,185	-	73.0	3,350	-
	120	AR2213SC	75.0	3,200	-	78.5	3,348	-
	120	AR2217	82.0	3,255	-	86.0	3,405	-
	120	AR2225	85.0	3,330	-	89.5C	3,519	-
	139	AR2209	69.0	3,079	-	71.0	3,183	-
	139	AR2213SC	72.0	3,018	-	76.5	3,181	-
	139	AR2217	81.0	3,119	-	85.5	3,284	-
	139	AR2225	83.0	3,165	-	88.0C	3,347	-
	145	AR2213SC	68.0	2,937	-	72.0	3,063	-
	145	AR2217	74.0	3,023	-	77.0	3,120	-
	145	AR2225	77.0	3,052	-	81.5C	3,195	-
	150	AR2213SC	66.0	2,852	-	68.0	2,923	-
	150	AR2217	70.0	2,901	-	72.5	2,982	-
	150	AR2225	71.0	2,848	-	77.0C	3,036	-
	150	AR2218	80.0	2,949	-	84.0C	3,027	-
	160	AR2213SC	70.0	2,884	-	74.0	3,037	-
	160	AR2217	76.0	2,930	-	80.7	3,084	-
	160	AR2225	75.0	2,909	-	80.2	3,056	-
	160	AR2218	88.0	2,929	-	90.0C	2,970	-
	175	AR2217	70.0	2,833	-	74.0	2,944	-
	175	AR2225	72.0	2,819	-	77.0	2,967	-
	175	AR2218	85.0	2,851	-	89.0C	2,973	-
	195	AR2218	84.0	2,759	-	88.0C	2,880	-
7mm Remington Ultra Magnum 24" Barrel								
	100	AR2209	82.0	3,618	55,500 psi	87.0	3,804	63,300 psi
	100	AR2213SC	90.0	3,585	55,900 psi	95.0	3,754	62,800 psi
	100	AR2217	98.0	3,515	52,200 psi	104.0C	3,750	62,700 psi
	110	AR2209	82.0	3,519	56,000 psi	86.0	3,675	63,200 psi
	110	AR2213SC	88.0	3,431	53,500 psi	93.5	3,652	63,000 psi
	110	AR2217	96.0	3,437	52,100 psi	102.0	3,676	62,600 psi
	115	AR2209	82.0	3,472	57,600 psi	85.5	3,592	63,400 psi
	115	AR2213SC	87.0	3,364	54,000 psi	91.5	3,565	62,800 psi

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Remington Ultra Magnum 24" Barrel (cont)								
	115	AR2217	95.0	3,380	54,500 psi	101.0	3,589	63,100 psi
	115	AR2225	98.0	3,398	54,100 psi	104.0C	3,683	64,100 psi
	120	AR2209	81.0	3,475	59,700 psi	83.0	3,552	62,900 psi
	120	AR2213SC	85.0	3,344	54,600 psi	90.0	3,536	63,000 psi
	120	AR2217	94.0	3,368	54,600 psi	99.5	3,572	63,100 psi
	120	AR2225	96.0	3,326	52,100 psi	102.5C	3,601	62,300 psi
	130	AR2213SC	83.0	3,235	55,600 psi	88.0	3,412	63,100 psi
	130	AR2217	90.0	3,224	53,700 psi	95.5	3,430	62,900 psi
	130	AR2225	93.0	3,223	52,400 psi	99.5C	3,514	63,600 psi
	130	AR2218	102.0	3,289	56,900 psi	107.0C	3,413	62,300 psi
	140	AR2213SC	82.0	3,123	56,200 psi	87.0	3,279	63,100 psi
	140	AR2217	90.0	3,196	59,300 psi	95.0	3,277	62,700 psi
	140	AR2225	90.0	3,142	55,200 psi	96.5C	3,353	62,900 psi
	140	AR2218	101.0	3,092	54,200 psi	107.0C	3,271	62,400 psi
	145	AR2213SC	83.0	3,125	55,400 psi	88.0	3,302	63,400 psi
	145	AR2217	91.0	3,157	55,300 psi	97.0	3,331	63,300 psi
	145	AR2225	93.0	3,159	52,800 psi	99.0	3,388	63,400 psi
	145	AR2218	101.0	3,100	53,800 psi	107.0C	3,319	63,600 psi
	150	AR2213SC	82.0	3,146	61,900 psi	84.0	3,187	63,100 psi
	150	AR2217	87.0	3,045	54,400 psi	92.0	3,230	63,100 psi
	150	AR2225	89.0	3,054	53,000 psi	95.0C	3,299	63,600 psi
	150	AR2218	97.0	3,048	55,000 psi	103.0C	3,222	63,200 psi
	154	AR2217	85.0	3,051	56,700 psi	90.0	3,192	63,300 psi
	154	AR2225	90.0	3,055	53,400 psi	96.2	3,289	63,900 psi
	154	AR2218	94.0	2,989	54,800 psi	100.0C	3,170	63,100 psi
	160	AR2217	85.0	3,007	56,500 psi	91.0	3,167	63,500 psi
	160	AR2225	88.0	3,003	53,700 psi	94.0	3,212	62,800 psi
	160	AR2218	94.0	2,985	55,600 psi	100.0	3,144	63,400 psi
	162	AR2217	84.0	2,993	55,600 psi	89.0	3,127	62,500 psi
	162	AR2225	89.0	3,009	53,100 psi	95.0	3,223	62,700 psi
	162	AR2218	94.0	2,979	56,000 psi	100.0	3,119	62,600 psi
	168	AR2217	85.0	2,988	57,500 psi	90.0	3,116	63,500 psi
	168	AR2225	89.0	2,986	54,400 psi	94.0	3,171	63,300 psi
	168	AR2218	94.0	2,942	55,600 psi	100.0	3,118	63,400 psi
	175	AR2217	82.0	2,871	56,700 psi	87.0	3,021	63,500 psi
	175	AR2225	86.0	2,919	57,300 psi	91.5	3,069	63,400 psi
	175	AR2218	91.0	2,888	57,000 psi	96.0	3,019	63,100 psi
7.35mm Carcano (1938) 21" Barrel								
	128	AR2207	-	-	-	33.00	2,500	-

C = Compressed Loads: L = Lead Projectile

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7.35mm Carcano (1938) 21" Barrel (cont)								
	128	AR2206	-	-	-	37.00	2,500	-
	128	AR2208	-	-	-	41.00	2,500	-
	150	AR2206	-	-	-	35.00	2,450	-
	150	AR2208	-	-	-	39.00	2,450	-
30 M1 Carbine 18" Barrel								
	93	AR2205	-	-	-	14.50	1,900	-
	93	AR2207	-	-	-	15.50	1,900	-
	100	AR2205	-	-	-	14.00	1,850	-
	100	AR2207	-	-	-	15.00	1,850	-
	110	AR2205	-	-	-	13.50	1,800	-
	110	AR2207	-	-	-	14.50	1,800	-
30/30 Winchester 24" Barrel								
	110	AR2207	23.0	2,174	-	25.5	2,409	-
	110	Bench Mark 2	30.5	2,406	-	32.5	2,507	-
	110	AR2206H	34.0	2,417	-	37.0	2,605	-
	110	AR2208	34.5	2,365	-	38.0C	2,572	-
	130	AR2207	22.5	2,082	-	24.5	2,234	-
	130	Bench Mark 2	27.7	2,165	-	29.7	2,295	-
	130	AR2206H	31.5	2,248	-	35.0	2,482	-
	130	AR2208	32.5	2,312	-	36.0C	2,496	-
	150	AR2207	21.6	1,924	-	24.0	2,110	-
	150	Bench Mark 2	27.0	2,042	-	29.0	2,183	-
	150	AR2206H	30.5	2,138	-	34.0	2,390	-
	150	AR2208	31.0	2,172	-	34.5	2,349	-
	170	AR2207	20.5	1,764	-	22.5	1,918	-
	170	Bench Mark 2	25.3	1,894	-	27.0	2,001	-
	170	AR2206H	27.5	1,947	-	30.5	2,138	-
	170	AR2208	29.5	1,976	-	33.0	2,168	-
30/40 Krag 24" Barrel								
	100	AR2205	13.0	1,433	-	16.0	1,706	-
	100	AR2207	30.0	2,604	-	34.0	2,886	-
	100	AR2219	39.0	2,542	-	43.0	2,898	-
	100	AR2206H	42.0	2,707	-	44.0	2,835	-
	100	AR2209	48.0	2,300	-	51.0	2,492	-
	110	AR2207	30.0	2,417	-	34.0	2,807	-
	110	AR2219	39.0	2,497	-	43.0	2,841	-
	110	AR2209	46.0	2,248	-	51.0	2,492	-
	130	AR2207	29.0	2,224	-	33.0	2,565	-
	130	AR2219	38.0	2,458	-	42.0	2,698	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
30/40 Krag 24" Barrel (cont)								
	130	AR2209	48.0	2,330	-	51.0	2,535	-
	150	AR2207	28.0	2,220	-	32.0	2,366	-
	150	AR2219	36.0	2,369	-	40.0	2,518	-
	150	AR2206H	38.5	2,410	-	42.0	2,575	-
	150	AR2209	46.0	2,198	-	49.0	2,388	-
	150	AR2213SC	45.0	2,129	-	49.0	2,306	-
	165	AR2219	35.0	2,228	-	39.0	2,402	-
	165	AR2209	45.0	2,115	-	48.0	2,242	-
	165	AR2213SC	44.0	1,967	-	48.0	2,176	-
	180	AR2219	33.0	2,111	-	37.0	2,250	-
	180	AR2206H	35.0	2,171	-	38.0	2,265	-
	180	AR2209	43.0	2,006	-	46.0	2,110	-
	200	AR2219	32.0	1,915	-	35.0	2,075	-
	200	AR2209	42.0	1,929	-	44.0	2,018	-
	220	AR2219	30.0	1,852	-	33.0	1,969	-
	220	AR2209	40.0	1,874	-	42.0	1,947	-
300 Savage 22" Barrel								
	100	AR2207	34.0	2,914	-	37.0	3,103	-
	100	AR2206H	41.0	2,819	-	43.0	3,002	-
	110	AR2207	34.0	2,742	-	37.0	2,978	-
	110	AR2206H	39.5	2,669	-	43.0	2,944	-
	130	AR2207	33.0	2,624	-	36.0	2,837	-
	130	AR2206H	39.5	2,324	-	43.0	2,698	-
	150	AR2206H	37.0	2,187	-	40.0	2,408	-
	165	AR2206H	35.0	2,164	-	38.0	2,341	-
	180	AR2206H	34.0	2,081	-	37.0	2,130	-
	200	AR2206H	32.0	1,973	-	35.0	2,089	-
7.5mm x 55 Swiss 31" Barrel								
	125	AR2206H	41.0	2,639	-	43.0	2,762	-
	125	AR2209	47.0	2,565	-	51.0	2,839	-
	125	AR2213SC	49.0	2,639	-	52.0	2,811	-
	150	AR2206H	40.0	2,484	-	42.0	2,578	-
	150	AR2209	45.0	2,420	-	49.0	2,610	-
	150	AR2213SC	47.0	2,493	-	51.0	2,659	-
	168	AR2206H	39.0	2,388	-	41.0	2,432	-
	168	AR2209	44.0	2,379	-	48.0	2,524	-
	168	AR2213SC	45.0	2,477	-	49.0	2,578	-
	180	AR2206H	37.0	2,201	-	39.0	2,296	-
	180	AR2209	42.0	2,250	-	46.0	2,566	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7.5mm x 55 Swiss 31" Barrel (cont)								
	180	AR2213SC	43.0	2,304	-	47.0	2,424	-
307 Winchester 20" Barrel								
	110	AR2219	41.0	2,814	-	44.0	3,000	-
	110	AR2206	41.0	2,732	-	44.5	2,965	-
	110	AR2206H	42.0	2,724	-	45.0	2,930	-
	110	AR2208	43.0	2,508	-	48.0	2,800	-
	110	AR2209	47.0	2,320	-	50.0	2,589	-
	110	AR2213SC	48.0	2,340	-	50.0	2,451	-
	125	AR2219	39.0	2,481	-	42.0	2,669	-
	125	AR2206	39.0	2,501	-	42.5	2,725	-
	125	AR2206H	40.0	2,540	-	43.0	2,762	-
	125	AR2208	40.5	2,430	-	45.0	2,700	-
	125	AR2209	47.0	2,380	-	50.0	2,522	-
	125	AR2213SC	48.0	2,269	-	50.0	2,400	-
	150	AR2219	38.0	2,319	-	41.0	2,513	-
	150	AR2206	38.5	2,370	-	41.5	2,555	-
	150	AR2206H	39.0	2,402	-	42.0	2,604	-
	150	AR2208	40.0	2,273	-	44.0	2,500	-
	150	AR2209	46.0	2,292	-	48.0	2,453	-
	150	AR2213SC	47.0	2,154	-	49.0	2,349	-
	170	AR2219	35.0	2,234	-	38.0	2,418	-
	170	AR2206	35.5	2,185	-	39.0	2,400	-
	170	AR2206H	37.0	2,314	-	40.0	2,474	-
	170	AR2208	38.0	2,171	-	42.0	2,400	-
	170	AR2209	45.0	2,210	-	47.0	2,380	-
	170	AR2213SC	45.0	2,161	-	47.0	2,290	-
	180	AR2219	34.0	2,169	-	37.0	2,359	-
	180	AR2206H	36.0	2,227	-	39.0	2,373	-
	180	AR2209	45.0	2,290	-	47.0	2,416	-
	180	AR2213SC	45.0	2,140	-	47.0	2,289	-
	200	AR2206	34.0	2,058	-	38.0	2,300	-
	200	AR2208	35.0	2,064	-	39.0	2,300	-
	200	AR2209	41.0	2,050	-	46.0	2,300	-
	200	AR2213SC	41.0	1,967	-	46.0	2,207	-
308 Winchester (7.62mm) 24" Barrel								
	110	AR2207	37.0	2,950	-	40.0	3,143	-
	110	AR2219	42.0	2,988	-	45.0	3,136	-
	110	Bench Mark 2	44.0	2,958	-	48.0	3,181	-
	110	AR2206H	45.0	3,005	-	49.0C	3,249	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
308 Winchester (7.62mm) 24" Barrel (cont)								
	110	AR2208	48.0	3,134	-	50.0C	3,237	-
	125	AR2207	36.0	2,841	-	39.5	2,988	-
	125	AR2219	42.0	2,888	-	45.0	3,052	-
	125	Bench Mark 2	43.0	2,821	-	47.5	3,070	-
	125	AR2206H	45.0	2,891	-	49.0C	3,127	-
	125	AR2208	48.0	3,049	-	50.0C	3,135	-
	130	AR2207	35.0	2,745	-	37.0	2,837	-
	130	AR2219	40.0	2,754	-	43.0	2,924	-
	130	Bench Mark 2	41.0	2,704	-	46.0	2,985	-
	130	AR2206	43.0	2,738	-	47.5C	3,025	-
	130	AR2206H	45.0	2,903	-	49.0C	3,099	-
	130	AR2208	47.0	2,975	-	50.0C	3,130	-
	144	AR2206	40.5	2,601	-	45.0	2,890	-
	144	AR2208	42.5	2,613	-	47.0C	2,890	-
	150	AR2219	37.0	2,508	-	40.0	2,702	-
	150	Bench Mark 2	39.0	2,521	-	43.0	2,752	-
	150	AR2206H	43.0	2,742	-	45.5	2,870	-
	150	AR2208	44.0	2,788	-	47.0C	2,937	-
	155	AR2219	38.0	2,588	-	41.0	2,710	-
	155	Bench Mark 2	39.0	2,538	-	43.0	2,753	-
	155	AR2206	40.0	2,539	-	44.5	2,825	-
	155	AR2206H	43.0	2,735	-	46.0	2,873	-
	155	AR2208	44.0	2,759	-	47.0C	2,909	-
	168	Bench Mark 2	38.0	2,416	-	42.0	2,630	-
	168	AR2206	39.5	2,445	-	43.7	2,705	-
	168	AR2206H	41.0	2,551	-	43.5	2,703	-
	168	AR2208	42.0	2,520	-	46.0C	2,731	-
	168	AR2209	42.5	2,193	-	47.0C	2,425	-
	175	Bench Mark 2	38.0	2,400	-	41.5	2,590	-
	175	AR2206	38.0	2,371	-	41.5	2,590	-
	175	AR2206H	40.0	2,489	-	42.7	2,647	-
	175	AR2208	42.0	2,583	-	45.0C	2,690	-
	190	Bench Mark 2	37.0	2,288	-	39.5	2,418	-
	190	AR2206H	39.0	2,359	-	42.0	2,514	-
	190	AR2208	41.0	2,452	-	44.0C	2,536	-
	190	AR2209	43.5	2,238	-	48.0C	2,470	-
7.62mm x 54R (Russian) 24" Barrel								
	110	Bench Mark 2	47.0	3,060	-	50.5	3,213	-
	110	AR2206H	51.0	3,150	-	55.0C	3,345	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7.62mm x 54R (Russian) 24" Barrel (cont)								
	110	AR2208	51.0	3,016	-	55.0C	3,200	-
	125	AR2206H	50.0	3,036	-	54.0C	3,236	-
	125	AR2208	51.0	2,967	-	55.0C	3,139	-
	150	AR2206H	46.0	2,769	-	49.5C	2,938	-
	150	AR2208	47.0	2,721	-	50.5	2,985	-
	165	AR2206H	44.0	2,633	-	47.0	2,761	-
	165	AR2208	45.0	2,581	-	48.3	2,727	-
	165	AR2209	52.0	2,608	-	55.0C	2,740	-
	180	AR2206H	42.0	2,482	-	45.4C	2,618	-
	180	AR2208	43.0	2,409	-	46.5C	2,575	-
	180	AR2209	51.0	2,493	-	55.0C	2,692	-
	180	AR2213SC	51.0	2,281	-	55.0C	2,484	-
	200	AR2206H	39.0	2,271	-	42.2	2,411	-
	200	AR2208	41.0	2,304	-	44.0	2,412	-
	200	AR2209	48.0	2,329	-	52.0	2,529	-
	200	AR2213SC	52.0	2,348	-	55.0C	2,468	-
	220	AR2206H	38.0	2,143	-	41.0	2,263	-
	220	AR2208	40.0	2,178	-	42.5	2,269	-
	220	AR2209	47.0	2,227	-	50.5C	2,396	-
	220	AR2213SC	50.0	2,209	-	54.0C	2,381	-
30-06 Springfield 24" Barrel								
	110	Bench Mark 2	51.5	3,242	-	55.0	3,396	-
	110	AR2206H	51.0	3,155	-	57.0	3,431	-
	110	AR2208	55.0	3,308	-	59.0	3,452	-
	125	Bench Mark 2	49.0	2,996	-	52.0	3,178	-
	125	AR2206H	48.0	2,977	-	53.7	3,229	-
	125	AR2208	54.0	3,159	-	57.2	3,267	-
	130	Bench Mark 2	48.0	2,986	-	51.0	3,107	-
	130	AR2206H	48.0	2,927	-	53.1	3,144	-
	130	AR2208	49.0	2,979	-	53.5	3,154	-
	150	Bench Mark 2	46.5	2,792	-	49.5	2,944	-
	150	AR2206H	46.0	2,806	-	51.0	2,976	-
	150	AR2208	47.0	2,808	-	51.0	2,975	-
	150	AR2209	56.0	2,792	-	62.0C	3,068	-
	155	Bench Mark 2	46.5	2,779	-	49.5	2,916	-
	155	AR2206H	46.0	2,752	-	51.0	2,925	-
	155	AR2208	48.0	2,822	-	50.7	2,958	-
	155	AR2209	56.0	2,757	-	62.0C	3,038	-
	165	Bench Mark 2	45.0	2,686	-	47.7	2,795	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
30-06 Springfield 24" Barrel (cont)								
	165	AR2206H	43.0	2,607	-	47.5	2,782	-
	165	AR2208	47.0	2,726	-	50.5	2,873	-
	165	AR2209	53.0	2,678	-	59.0C	2,938	-
	168	Bench Mark 2	44.0	2,614	-	47.2	2,760	-
	168	AR2206H	43.0	2,574	-	47.5	2,789	-
	168	AR2208	47.0	2,710	-	50.5	2,859	-
	168	AR2209	55.0	2,695	-	59.0	2,897	-
	180	Bench Mark 2	43.0	2,550	-	46.0	2,660	-
	180	AR2206H	41.0	2,427	-	46.0	2,638	-
	180	AR2208	44.0	2,533	-	47.0	2,668	-
	180	AR2209	52.0	2,543	-	57.5	2,798	-
	180	AR2213SC	54.0	2,447	-	60.0C	2,710	-
	190	AR2206H	41.0	2,380	-	45.5	2,525	-
	190	AR2208	43.5	2,450	-	46.5	2,608	-
	190	AR2209	51.0	2,451	-	56.5	2,692	-
	190	AR2213SC	57.0	2,514	-	61.0C	2,668	-
	200	AR2206H	39.0	2,246	-	43.5	2,421	-
	200	AR2208	42.5	2,373	-	45.5	2,501	-
	200	AR2209	50.0	2,431	-	53.0	2,544	-
	200	AR2213SC	54.0	2,436	-	57.5C	2,577	-
	200	AR2217	55.0	2,267	-	61.0C	2,510	-
	220	AR2208	42.0	2,279	-	45.0	2,382	-
	220	AR2209	50.0	2,318	-	53.0	2,435	-
	220	AR2213SC	54.0	2,342	-	57.5C	2,458	-
	220	AR2217	58.0	2,293	-	61.0C	2,412	-
	250	AR2209	45.0	2,060	-	47.5	2,156	-
	250	AR2213SC	50.0	2,134	-	52.5C	2,237	-
	250	AR2217	55.0	2,178	-	58.0C	2,281	-
30-06 Improved 24" Barrel								
	130	AR2209	-	-	-	65.00	3,250	-
	150	AR2209	-	-	-	62.50	3,100	-
	165	AR2209	-	-	-	59.50	3,000	-
	180	AR2209	-	-	-	58.00	2,900	-
	200	AR2209	-	-	-	56.00	2,750	-
300 Holland & Holland Magnum 24" Barrel								
	110	AR2209	69.0	3,329	-	73.0	3,550	-
	110	AR2213SC	76.5	3,425	-	83.0	3,611	-
	130	AR2209	68.0	3,142	-	72.0	3,394	-
	130	AR2213SC	75.0	3,186	-	81.0	3,362	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Holland & Holland Magnum 24" Barrel (cont)								
	150	AR2209	67.0	2,998	-	71.0	3,202	-
	150	AR2213SC	72.0	3,096	-	78.0	3,313	-
	165	AR2209	66.0	3,018	-	69.0	3,164	-
	165	AR2213SC	71.0	2,949	-	77.0	3,099	-
	200	AR2209	62.0	2,747	-	66.0	2,909	-
	200	AR2213SC	67.0	2,737	-	72.0	2,932	-
	220	AR2209	60.0	2,595	-	64.0	2,717	-
	220	AR2213SC	65.0	2,655	-	70.0	2,714	-
	250	AR2209	59.0	2,344	-	62.0	2,493	-
	250	AR2213SC	63.0	2,372	-	67.0	2,563	-
308 Norma Magnum 26" Barrel								
	110	AR2206H	59.0	3,339	-	64.0	3,554	-
	110	AR2209	72.0	3,202	-	77.0	3,506	-
	110	AR2213SC	73.0	3,229	-	80.0	3,563	-
	130	AR2206H	59.0	3,166	-	64.0	3,388	-
	130	AR2209	71.0	3,139	-	74.0	3,292	-
	130	AR2213SC	73.0	3,201	-	79.0	3,302	-
	130	AR2217	80.0	3,211	-	84.0	3,333	-
	150	AR2206H	57.0	2,940	-	62.0	3,192	-
	150	AR2209	69.0	2,914	-	73.0	3,188	-
	150	AR2213SC	70.0	3,157	-	76.0	3,258	-
	150	AR2217	79.0	3,090	-	83.0	3,279	-
	168	AR2206H	56.0	2,859	-	61.0	3,059	-
	168	AR2209	68.0	2,880	-	72.0	3,114	-
	168	AR2213SC	69.0	2,944	-	75.0	3,140	-
	168	AR2217	75.0	2,939	-	79.0	3,123	-
	180	AR2206H	54.0	2,732	-	59.0	2,898	-
	180	AR2209	65.0	2,770	-	69.0	2,999	-
	180	AR2213SC	67.0	2,865	-	73.0	3,022	-
	180	AR2217	72.0	2,769	-	76.0	2,940	-
	190	AR2217	70.0	2,711	-	74.0	2,891	-
	200	AR2209	63.0	2,740	-	67.0	2,851	-
	200	AR2213SC	64.5	2,662	-	70.0	2,889	-
	200	AR2217	69.0	2,674	-	73.0	2,859	-
	220	AR2209	61.0	2,519	-	65.0	2,707	-
	220	AR2213SC	63.0	2,437	-	68.0	2,697	-
	220	AR2217	66.0	2,449	-	70.0	2,672	-
	250	AR2217	64.0	2,392	-	68.0	2,501	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Remington Short Action Ultra Magnum 24" Barrel								
	110	AR2206H	58.0	3,431	50,600 psi	62.0	3,663	63,000 psi
	110	AR2208	60.5	3,391	51,100 psi	64.5	3,619	63,200 psi
	125	AR2206H	58.0	3,341	54,700 psi	62.0	3,557	64,300 psi
	125	AR2208	60.0	3,297	52,700 psi	64.0	3,511	64,200 psi
	125	AR2209	65.0	3,172	47,800 psi	69.0C	3,374	58,300 psi
	130	AR2206H	55.5	3,182	51,700 psi	59.0	3,360	62,800 psi
	130	AR2208	57.5	3,165	53,600 psi	61.0	3,330	62,600 psi
	130	AR2209	65.0	3,198	54,700 psi	69.0C	3,359	63,500 psi
	135	AR2206H	55.5	3,166	52,700 psi	59.0	3,340	62,500 psi
	135	AR2208	56.5	3,079	52,000 psi	60.0	3,272	63,100 psi
	135	AR2209	63.0	3,090	51,900 psi	67.0C	3,283	63,500 psi
	140	AR2206H	53.5	3,039	52,300 psi	57.0	3,212	62,600 psi
	140	AR2208	55.5	3,051	54,400 psi	59.0	3,203	62,400 psi
	140	AR2209	62.0	3,023	51,700 psi	66.0C	3,207	62,000 psi
	150	AR2206H	53.0	3,007	55,900 psi	57.0	3,147	62,800 psi
	150	AR2208	55.0	2,967	52,700 psi	59.0	3,148	63,200 psi
	150	AR2209	62.0	2,985	52,600 psi	65.5C	3,147	62,100 psi
	155	AR2206H	52.0	2,895	50,800 psi	55.5	3,064	61,700 psi
	155	AR2208	54.5	2,925	53,900 psi	57.7	3,082	63,200 psi
	155	AR2209	60.5	2,900	50,200 psi	64.5	3,112	63,500 psi
	165	AR2206H	50.5	2,827	56,500 psi	54.0	2,946	63,000 psi
	165	AR2208	53.0	2,833	55,400 psi	56.5	2,967	63,100 psi
	165	AR2209	59.0	2,797	50,200 psi	63.0	2,997	62,900 psi
	168	AR2206H	51.0	2,833	57,000 psi	54.5	2,948	63,100 psi
	168	AR2208	53.5	2,835	55,600 psi	56.5	2,955	62,700 psi
	168	AR2209	58.0	2,771	49,500 psi	62.5	2,985	63,000 psi
	168	AR2213SC	64.0	2,801	53,200 psi	68.0C	2,950	62,600 psi
	175	AR2209	59.0	2,806	54,000 psi	62.5	2,945	62,700 psi
	175	AR2213SC	64.0	2,785	54,800 psi	68.0C	2,924	62,600 psi
	180	AR2206H	48.0	2,693	57,000 psi	51.5	2,823	64,700 psi
	180	AR2208	50.0	2,680	53,600 psi	54.0	2,842	63,600 psi
	180	AR2209	58.0	2,772	55,600 psi	61.6C	2,907	63,500 psi
	190	AR2209	56.0	2,660	52,100 psi	60.0	2,836	62,900 psi
	190	AR2213SC	61.0	2,660	54,000 psi	65.5C	2,811	62,800 psi
	200	AR2209	56.0	2,584	51,600 psi	59.5C	2,751	63,200 psi
	200	AR2213SC	63.0	2,639	55,500 psi	66.0C	2,755	63,300 psi
	220	AR2209	54.0	2,470	54,200 psi	58.0	2,608	63,700 psi
	220	AR2213SC	60.0	2,497	55,800 psi	63.5C	2,614	63,500 psi

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Winchester Short Magnum 24" Barrel								
	110	AR2206H	60.0	3,495	56,800 psi	63.5	3,647	63,600 psi
	110	AR2208	62.0	3,454	54,300 psi	66.0	3,631	63,200 psi
	110	AR2209	70.0	3,437	53,500 psi	74.5C	3,646	63,300 psi
	125	AR2206H	58.0	3,314	56,600 psi	61.0	3,431	63,000 psi
	125	AR2208	61.0	3,312	54,700 psi	65.0	3,478	63,100 psi
	125	AR2209	69.0	3,332	55,800 psi	73.0	3,481	63,000 psi
	130	AR2206H	56.0	3,213	55,700 psi	58.5	3,318	63,000 psi
	130	AR2208	60.0	3,269	58,100 psi	63.5	3,388	63,500 psi
	130	AR2209	67.0	3,237	54,900 psi	71.0	3,393	63,200 psi
	140	AR2206H	52.0	2,998	51,700 psi	56.0	3,201	63,400 psi
	140	AR2208	56.0	3,086	54,800 psi	60.0	3,248	63,200 psi
	140	AR2209	65.0	3,113	53,900 psi	69.0	3,288	63,100 psi
	150	AR2206H	51.0	2,919	53,400 psi	54.5	3,078	63,100 psi
	150	AR2208	55.0	3,008	56,800 psi	58.5	3,140	63,800 psi
	150	AR2209	63.0	3,040	55,700 psi	67.0	3,187	63,200 psi
	155	AR2206H	52.0	2,935	55,800 psi	55.0	3,061	63,600 psi
	155	AR2208	55.0	2,963	54,800 psi	58.5	3,110	63,600 psi
	155	AR2209	63.0	3,014	55,300 psi	66.5	3,156	63,200 psi
	165	AR2206H	51.0	2,810	55,700 psi	54.0	2,929	63,200 psi
	165	AR2208	54.0	2,859	56,400 psi	57.5	2,987	63,700 psi
	165	AR2209	61.0	2,898	54,800 psi	65.5	3,047	63,600 psi
	168	AR2209	61.0	2,908	56,000 psi	64.5	3,034	63,700 psi
	168	AR2213SC	65.0	2,848	53,400 psi	69.5C	3,015	63,200 psi
	175	AR2209	61.0	2,839	53,300 psi	65.0	3,009	63,400 psi
	175	AR2213SC	66.0	2,848	55,300 psi	70.0C	2,980	63,100 psi
	180	AR2209	60.0	2,799	55,700 psi	64.0	2,950	63,900 psi
	180	AR2213SC	65.5	2,775	52,000 psi	70.0C	2,929	64,000 psi
	190	AR2209	57.5	2,736	56,200 psi	61.0	2,853	63,400 psi
	190	AR2213SC	62.0	2,704	53,800 psi	66.5C	2,858	63,400 psi
	200	AR2209	58.0	2,666	55,000 psi	62.0	2,792	63,200 psi
	200	AR2213SC	63.0	2,678	56,000 psi	66.5C	2,802	63,700 psi
	200	AR2217	70.0	2,660	51,600 psi	72.0C	2,737	57,200 psi
	220	AR2209	54.0	2,476	54,100 psi	58.0	2,602	63,300 psi
	220	AR2213SC	60.0	2,520	55,600 psi	64.3C	2,646	63,500 psi
	220	AR2217	69.0	2,597	57,200 psi	72.5C	2,689	63,000 psi
300 Winchester Magnum 24" Barrel								
	110	AR2206H	60.0	3,381	-	67.0	3,665	-
	110	AR2208	67.0	3,424	-	72.5	3,660	-
	110	AR2209	72.0	3,337	-	80.0	3,648	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Winchester Magnum 24" Barrel (cont)								
	110	AR2213SC	79.0	3,355	-	84.0C	3,540	-
	110	AR2217	80.0	3,189	-	85.0C	3,392	-
	125	AR2206H	57.0	3,140	-	62.0	3,347	-
	125	AR2208	65.0	3,281	-	70.0	3,462	-
	125	AR2209	68.0	3,250	-	73.0	3,424	-
	125	AR2213SC	75.0	3,286	-	80.0	3,450	-
	125	AR2217	80.0	3,260	-	85.0C	3,418	-
	130	AR2206H	58.0	3,187	-	62.0	3,331	-
	130	AR2208	64.0	3,218	-	68.5	3,398	-
	130	AR2209	70.0	3,219	-	74.0	3,375	-
	130	AR2213SC	77.0	3,116	-	82.0C	3,383	-
	130	AR2217	80.0	3,125	-	85.0C	3,289	-
	150	AR2206H	57.0	2,991	-	61.0	3,124	-
	150	AR2208	56.0	2,952	-	60.0	3,108	-
	150	AR2209	68.0	3,052	-	72.0	3,205	-
	150	AR2213SC	73.0	3,025	-	78.0	3,207	-
	150	AR2217	80.0	3,004	-	85.0C	3,255	-
	155	AR2206H	55.0	2,919	-	59.0	3,078	-
	155	AR2208	55.0	2,897	-	59.7	3,090	-
	155	AR2209	69.0	3,013	-	74.0	3,215	-
	155	AR2213SC	74.0	2,964	-	79.0C	3,166	-
	155	AR2217	80.0	2,992	-	85.0C	3,160	-
	165	AR2206H	55.0	2,839	-	59.0	2,977	-
	165	AR2208	54.0	2,799	-	58.5	2,975	-
	165	AR2209	66.0	2,910	-	70.0	3,042	-
	165	AR2213SC	72.0	2,934	-	75.5	3,055	-
	165	AR2217	79.0	2,957	-	84.0	3,117	-
	168	AR2206H	55.0	2,843	-	59.0	2,977	-
	168	AR2208	54.0	2,795	-	58.2	2,964	-
	168	AR2209	66.0	2,900	-	70.0	3,034	-
	168	AR2213SC	72.0	2,876	-	75.5	3,023	-
	168	AR2217	79.0	2,938	-	84.0	3,110	-
	180	AR2209	63.0	2,787	-	67.0	2,918	-
	180	AR2213SC	69.0	2,851	-	73.0C	2,966	-
	180	AR2217	76.0	2,883	-	81.0C	3,042	-
	190	AR2209	63.0	2,735	-	67.0	2,863	-
	190	AR2213SC	69.0	2,795	-	73.0C	2,923	-
	190	AR2217	76.0	2,822	-	81.0C	2,990	-
	200	AR2209	63.0	2,646	-	66.0	2,753	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Winchester Magnum 24" Barrel (cont)								
	200	AR2213SC	67.0	2,686	-	72.0C	2,825	-
	200	AR2217	74.0	2,725	-	79.0C	2,883	-
	200	AR2225	79.0	2,798	-	84.0C	2,962	-
	220	AR2209	61.0	2,501	-	65.0	2,622	-
	220	AR2213SC	66.0	2,533	-	71.0	2,685	-
	220	AR2217	73.0	2,588	-	78.0	2,750	-
	220	AR2225	76.0	2,646	-	81.0C	2,810	-
	250	AR2213SC	60.0	2,329	-	64.0	2,434	-
	250	AR2217	65.0	2,347	-	70.0	2,484	-
	250	AR2225	71.0	2,455	-	75.0C	2,589	-
300 Weatherby Magnum 24" Barrel								
	125	AR2208	65.0	3,386	-	69.0	3,492	-
	125	AR2209	77.0	3,347	-	82.5	3,547	-
	125	AR2213SC	84.0	3,322	-	90.0C	3,527	-
	150	AR2206H	58.0	2,956	-	62.3	3,098	-
	150	AR2208	59.0	2,977	-	63.0	3,142	-
	150	AR2209	68.0	2,986	-	72.5	3,156	-
	150	AR2213SC	74.0	2,994	-	79.0	3,168	-
	150	AR2217	82.0	3,064	-	88.0C	3,264	-
	165	AR2206H	58.0	2,871	-	62.5	3,028	-
	165	AR2208	58.0	2,873	-	62.0	3,033	-
	165	AR2209	69.0	2,908	-	74.0	3,074	-
	165	AR2213SC	75.0	2,934	-	80.2	3,113	-
	165	AR2217	84.0	3,014	-	89.7C	3,216	-
	180	AR2209	69.0	2,876	-	73.5	3,022	-
	180	AR2213SC	76.0	2,910	-	81.5	3,096	-
	180	AR2217	83.0	2,971	-	88.5C	3,151	-
	200	AR2209	66.0	2,706	-	71.0	2,866	-
	200	AR2213SC	72.0	2,708	-	77.5	2,869	-
	200	AR2217	79.0	2,766	-	85.0C	2,963	-
	200	AR2225	80.0	2,764	-	85.5C	2,981	-
	220	AR2209	66.0	2,599	-	70.0	2,725	-
	220	AR2213SC	71.0	2,630	-	75.7	2,766	-
	220	AR2217	77.0	2,670	-	82.5	2,833	-
	220	AR2225	79.0	2,679	-	84.0C	2,853	-
30-378 Weatherby 26" Barrel								
	150	AR2213SC	100.0	3,449	-	104.0	3,555	-
	150	AR2217	110.0	3,464	-	114.0	3,598	-
	150	AR2225	113.0	3,490	-	119.0C	3,690	-

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CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
30-378 Weatherby 26" Barrel (cont)								
	165	AR2213SC	95.0	3,202	-	100.5	3,391	-
	165	AR2217	106.0	3,285	-	112.0	3,495	-
	165	AR2225	109.0	3,305	-	116.0C	3,559	-
	180	AR2213SC	94.0	3,134	-	100.0	3,301	-
	180	AR2217	105.0	3,213	-	111.0	3,412	-
	180	AR2225	107.0	3,228	-	113.0C	3,460	-
	180	AR2218	116.0	3,089	-	120.0C	3,229	-
	190	AR2217	102.0	3,154	-	108.0	3,316	-
	190	AR2225	105.0	3,154	-	111.5C	3,374	-
	190	AR2218	115.0	3,113	-	120.0C	3,243	-
	200	AR2218	111.0	3,134	-	117.0C	3,227	-
	220	AR2217	99.0	2,965	-	104.0	3,084	-
	220	AR2225	101.0	2,954	-	107.5	3,155	-
	220	AR2218	115.0	3,047	-	118.5C	3,145	-
300 Remington Ultra Magnum 24" Barrel								
	150	AR2213SC	90.0	3,243	55,100 psi	94.0	3,408	62,900 psi
	150	AR2217	98.0	3,258	53,100 psi	102.0	3,457	62,900 psi
	150	AR2225	100.0	3,343	52,600 psi	106.0C	3,531	60,800 psi
	165	AR2213SC	85.0	3,057	52,300 psi	90.0	3,255	62,100 psi
	165	AR2217	94.0	3,135	53,300 psi	98.0	3,321	62,500 psi
	165	AR2225	97.0	3,241	54,200 psi	103.0C	3,414	62,300 psi
	180	AR2213SC	84.0	2,997	54,000 psi	89.0	3,167	62,500 psi
	180	AR2217	91.0	3,018	52,300 psi	96.0	3,218	62,800 psi
	180	AR2225	94.0	3,182	58,400 psi	100.5C	3,300	62,400 psi
	180	AR2218	103.0	3,005	53,700 psi	108.0C	3,159	62,100 psi
	190	AR2213SC	80.0	2,892	53,000 psi	85.0	3,069	62,500 psi
	190	AR2217	88.0	2,971	54,900 psi	93.0	3,130	63,500 psi
	190	AR2225	90.0	3,069	56,500 psi	96.0	3,204	62,500 psi
	190	AR2218	100.0	2,938	54,900 psi	105.0C	3,085	63,000 psi
	200	AR2217	80.0	2,767	57,400 psi	83.0	2,850	62,800 psi
	200	AR2225	81.0	2,852	56,200 psi	86.0	2,988	62,800 psi
	200	AR2218	92.0	2,767	56,100 psi	98.0C	2,910	63,100 psi
	220	AR2217	83.0	2,704	54,500 psi	89.0	2,863	63,500 psi
	220	AR2225	84.0	2,800	56,600 psi	89.0	2,905	61,900 psi
	220	AR2218	95.0	2,699	54,000 psi	100.5C	2,850	62,500 psi
7.62mm x 39 (Russian) 24" Barrel								
	125	AR2207	24.5	2,190	-	26.5	2,378	-
	125	AR2219	28.0	2,210	-	29.0	2,323	-
	125	AR2206H	28.0	2,171	-	29.0	2,249	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7.62mm x 39 (Russian) 24" Barrel (cont)								
	150	AR2207	22.5	1,947	-	24.5	2,122	-
	150	AR2219	27.0	2,084	-	28.5	2,192	-
	150	AR2206H	27.0	2,080	-	28.0	2,154	-
310 Cadet (Martini Action) 22" Barrel								
L	110	AR2205	-	-	-	11.00	1,500	-
	120	AR2205	-	-	-	9.00	1,270	-
32-20 WCF 24" Barrel								
L	80	AR2205	-	-	-	16.00	2,150	-
	100	AR2205	-	-	-	14.00	1,950	-
	115	AP70N	-	-	-	4.00	1,260	-
	115	AR2205	-	-	-	13.00	1,800	-
L	125	AP70N	-	-	-	3.70	1,225	-
7.7mm x 58 Japanese 26" Barrel								
	150	AR2206	-	-	-	42.50	2,500	-
	150	AR2208	-	-	-	46.00	2,500	-
	150	AR2209	-	-	-	51.00	2,514	-
	150	AR2213SC	-	-	-	55.00	2,445	-
	180	AR2206	-	-	-	39.00	2,250	-
	180	AR2208	-	-	-	42.50	2,250	-
	180	AR2209	-	-	-	47.00	2,309	-
	180	AR2213SC	-	-	-	50.00	2,233	-
303 British 24" Barrel								
	125	Bench Mark 2	40.0	2,680	-	44.0	2,920	-
	125	AR2206	42.0	2,635	-	46.0C	2,880	-
	125	AR2206H	41.0	2,791	-	45.0	2,931	-
	125	AR2208	45.0	2,766	-	48.0	2,883	-
	150	Bench Mark 2	34.0	2,450	-	38.0	2,605	-
	150	AR2206	36.0	2,440	-	39.5	2,620	-
	150	AR2206H	36.0	2,447	-	40.0	2,627	-
	150	AR2208	39.0	2,458	-	43.0	2,656	-
	174	AR2206	34.0	2,245	-	37.5	2,515	-
	174	AR2206H	34.0	2,262	-	38.0	2,446	-
	174	AR2208	38.0	2,345	-	42.0	2,509	-
	174	AR2209	43.0	2,266	-	48.0C	2,517	-
	180	AR2206	33.0	2,200	-	37.5	2,390	-
	180	AR2206H	34.0	2,178	-	38.0	2,400	-
	180	AR2208	37.0	2,282	-	41.0	2,440	-
	180	AR2209	44.0	2,295	-	48.0C	2,500	-
	215	AR2206	35.0	2,080	-	39.0	2,250	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
303 British 24" Barrel (cont)								
	215	AR2208	36.0	2,130	-	39.5	2,265	-
	215	AR2209	42.0	2,045	-	45.0C	2,185	-
7.65mm x 53 (7.65mm Mauser) 29" Barrel								
	150	AR2206	38.0	2,285	-	42.0	2,565	-
	150	AR2206H	39.5	2,341	-	43.0	2,597	-
	150	AR2208	40.0	2,305	-	43.5	2,590	-
	150	AR2209	45.0	2,347	-	49.0	2,614	-
	174	AR2206	36.0	2,055	-	38.5	2,325	-
	174	AR2206H	37.0	2,072	-	40.0	2,351	-
	174	AR2208	38.0	2,110	-	41.0	2,350	-
	174	AR2209	43.0	2,266	-	47.0	2,454	-
32 Winchester Special 20" Barrel								
	170	AR2207	25.0	2,007	-	27.0	2,168	-
	170	AR2219	30.0	2,111	-	32.3	2,263	-
	170	Bench Mark 2	30.0	2,005	-	32.5	2,175	-
	170	AR2206	31.0	1,963	-	33.0	2,200	-
	170	AR2206H	32.0	2,122	-	34.5	2,283	-
	170	AR2208	34.0	2,096	-	37.0C	2,271	-
32-40 Winchester 24" Barrel								
	170	AR2207	-	-	-	19.00	1,650	-
	170	AR2206	-	-	-	26.00	1,825	-
L	196	AR2205	-	-	-	13.00	1,367	-
8mm Mauser (8x57) 24" Barrel								
	125	AR2207	39.0	2,943	-	42.0	3,054	-
	125	Bench Mark 2	43.5	2,728	-	49.8	3,068	-
	125	AR2206H	47.0	2,843	-	53.5	3,208	-
	125	AR2208	47.0	2,730	-	54.0	3,092	-
	125	AR2209	50.0	2,217	-	54.0	2,480	-
	150	AR2207	38.0	2,688	-	41.0	2,848	-
	150	Bench Mark 2	42.5	2,577	-	47.5	2,860	-
	150	AR2206H	44.0	2,619	-	51.0	2,987	-
	150	AR2208	45.5	2,561	-	52.4C	2,896	-
	150	AR2209	50.0	2,364	-	54.0	2,552	-
	150	AR2213SC	53.0	2,183	-	57.0	2,452	-
	170	Bench Mark 2	41.0	2,397	-	46.6	2,679	-
	170	AR2206H	40.0	2,306	-	49.0	2,769	-
	170	AR2208	43.0	2,362	-	50.5	2,700	-
	170	AR2209	50.0	2,339	-	54.0	2,507	-
	170	AR2213SC	53.0	2,207	-	57.0	2,418	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
8mm Mauser (8x57) 24" Barrel (cont)								
	180	Bench Mark 2	39.0	2,304	-	44.5	2,586	-
	180	AR2206H	41.0	2,387	-	47.7	2,691	-
	180	AR2208	42.0	2,309	-	48.8	2,641	-
	200	AR2206H	38.0	2,240	-	45.4	2,539	-
	200	AR2208	40.5	2,183	-	47.5	2,511	-
	200	AR2209	49.0	2,276	-	54.0C	2,522	-
	220	AR2206H	40.0	2,178	-	45.2	2,420	-
	220	AR2208	39.0	2,055	-	46.8	2,390	-
8mm x 68 Schuler 26" Barrel								
	125	AR2209	-	-	-	73.00	3,300	-
	150	AR2209	-	-	-	70.00	3,100	-
	170	AR2209	-	-	-	68.00	2,950	-
	220	AR2209	-	-	-	62.00	2,650	-
8mm Remington Magnum 24" Barrel								
	125	AR2209	-	-	-	83.00	3,488	-
	150	AR2209	-	-	-	79.00	3,272	-
	170-175	AR2209	-	-	-	77.00	3,128	-
	170-175	AR2213SC	-	-	-	82.00	3,144	-
	180-185	AR2209	-	-	-	75.00	3,007	-
	180-185	AR2213SC	-	-	-	80.00	3,024	-
	200	AR2209	-	-	-	73.00	2,919	-
	200	AR2213SC	-	-	-	79.00	2,932	-
	220-225	AR2213SC	-	-	-	78.00	2,871	-
338-06 24" Barrel								
	200	AR2219	47.0	2,583	53,600 psi	50.9	2,724	61,900 psi
	200	Bench Mark 2	48.0	2,569	52,400 psi	52.2	2,725	61,000 psi
	200	AR2206H	50.0	2,628	52,900 psi	54.0	2,787	63,300 psi
	200	AR2208	52.0	2,622	51,500 psi	56.5	2,807	63,100 psi
	200	AR2209	58.0	2,593	47,800 psi	62.0C	2,729	54,300 psi
	225	AR2206H	46.0	2,410	51,200 psi	49.8	2,577	63,000 psi
	225	AR2208	48.0	2,441	52,100 psi	52.0	2,599	62,700 psi
	225	AR2209	55.0	2,481	52,100 psi	59.5C	2,649	62,700 psi
	250	AR2208	46.0	2,248	51,300 psi	50.0	2,405	62,100 psi
	250	AR2209	55.0	2,366	51,700 psi	59.8	2,540	63,400 psi
338 Winchester Magnum 24" Barrel								
	160	AR2206H	57.0	2,918	-	63.0	3,139	-
	160	AR2208	57.0	2,935	-	63.0	3,152	-
	160	AR2209	65.0	2,889	-	72.0	3,156	-
	160	AR2213SC	70.0	2,875	-	78.0C	3,127	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338 Winchester Magnum 24" Barrel (cont)								
	175	AR2206H	54.0	2,744	-	60.5	2,968	-
	175	AR2208	53.0	2,704	-	59.0	2,940	-
	175	AR2209	63.0	2,769	-	70.0	3,050	-
	175	AR2213SC	68.0	2,770	-	76.0	3,041	-
	180	AR2206H	58.0	2,893	-	64.0	3,066	-
	180	AR2208	57.0	2,871	-	63.5	3,087	-
	180	AR2209	69.0	2,928	-	74.5	3,157	-
	180	AR2213SC	70.0	2,776	-	78.0C	3,067	-
	200	AR2206H	56.0	2,702	-	62.0	2,877	-
	200	AR2208	53.0	2,597	-	58.5	2,805	-
	200	AR2209	65.0	2,695	-	72.5	2,969	-
	200	AR2213SC	70.0	2,703	-	77.5C	2,965	-
	210	AR2206H	54.0	2,609	-	60.0	2,788	-
	210	AR2208	53.0	2,577	-	58.5	2,784	-
	210	AR2209	63.0	2,618	-	70.0	2,855	-
	210	AR2213SC	68.0	2,648	-	75.5C	2,888	-
	225	AR2206H	53.0	2,505	-	59.0	2,688	-
	225	AR2208	52.0	2,481	-	57.5	2,680	-
	225	AR2209	63.0	2,571	-	69.5	2,785	-
	225	AR2213SC	67.0	2,542	-	74.5C	2,792	-
	250	AR2209	61.0	2,448	-	67.5	2,657	-
	250	AR2213SC	64.0	2,424	-	71.5C	2,655	-
	250	AR2217	72.0	2,512	-	76.0C	2,622	-
	275	AR2209	57.0	2,259	-	63.5	2,447	-
	275	AR2213SC	62.0	2,304	-	69.0	2,502	-
	275	AR2217	70.0	2,402	-	76.0C	2,564	-
340 Weatherby Magnum 26" Barrel								
	200	AR2209	77.0	2,777	-	80.0	2,994	-
	200	AR2213SC	85.0	2,837	-	90.0	3,040	-
	225	AR2209	75.0	2,707	-	78.0	2,866	-
	225	AR2213SC	81.0	2,620	-	86.0	2,889	-
	250	AR2209	73.0	2,570	-	76.0	2,724	-
	250	AR2213SC	78.0	2,487	-	83.0	2,784	-
	275	AR2209	71.0	2,460	-	74.0	2,575	-
	275	AR2213SC	75.0	2,377	-	80.0	2,569	-
338 Lapua Magnum 24" Barrel								
	160	AR2209	83.0	3,176	-	92.7	3,432	-
	160	AR2213SC	90.0	3,133	-	99.5	3,398	-
	175	AR2209	79.0	3,018	-	88.0	3,264	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338 Lapua Magnum 24" Barrel (cont)								
	175	AR2213SC	85.0	2,996	-	93.0	3,196	-
	175	AR2217	93.0	2,957	-	103.0C	3,247	-
	185	AR2209	82.0	3,058	-	91.0	3,283	-
	185	AR2213SC	87.0	2,960	-	97.0	3,223	-
	185	AR2217	100.0	3,059	-	106.0C	3,209	-
	200	AR2209	79.0	2,925	-	85.5	3,099	-
	200	AR2213SC	83.0	2,855	-	92.0	3,086	-
	200	AR2217	92.0	2,854	-	102.0C	3,116	-
	200	AR2225	96.0	2,928	-	104.0C	3,189	-
	210	AR2209	76.0	2,834	-	82.0	3,005	-
	210	AR2213SC	80.0	2,735	-	89.0	3,006	-
	210	AR2217	90.0	2,800	-	99.5	3,052	-
	210	AR2225	92.0	2,846	-	102.0C	3,142	-
	215	AR2209	76.0	2,791	-	84.0	3,015	-
	215	AR2213SC	82.0	2,763	-	91.0	2,997	-
	215	AR2217	92.0	2,809	-	102.0C	3,068	-
	215	AR2225	94.0	2,849	-	104.0C	3,125	-
	225	AR2209	74.0	2,715	-	82.5	2,936	-
	225	AR2213SC	80.0	2,699	-	89.6	2,918	-
	225	AR2217	91.0	2,713	-	101.0C	2,995	-
	225	AR2225	92.0	2,744	-	102.0C	3,040	-
	250	AR2209	74.0	2,615	-	78.0	2,742	-
	250	AR2213SC	79.0	2,600	-	85.0	2,740	-
	250	AR2217	88.0	2,567	-	98.0C	2,838	-
	250	AR2225	90.0	2,620	-	98.0C	2,853	-
	275	AR2213SC	71.0	2,349	-	79.0	2,572	-
	275	AR2217	83.0	2,444	-	91.5C	2,648	-
	275	AR2225	80.0	2,421	-	89.0	2,671	-
	300	AR2213SC	71.0	2,307	-	79.0	2,511	-
	300	AR2217	83.0	2,383	-	92.0C	2,590	-
	300	AR2225	85.0	2,376	-	94.0C	2,654	-
338 Remington Ultra Magnum 24" Barrel								
	160	AR2209	89.0	3,279	52,800 psi	94.5	3,473	62,700 psi
	160	AR2213SC	96.0	3,235	54,700 psi	102.0C	3,414	63,200 psi
	160	AR2217	99.0	3,108	45,000 psi	102.0C	3,215	49,400 psi
	175	AR2209	86.0	3,141	53,800 psi	91.5	3,332	62,900 psi
	175	AR2213SC	93.5	3,100	53,900 psi	99.5	3,290	63,000 psi
	175	AR2217	96.0	3,013	46,100 psi	102.0C	3,191	54,000 psi
	185	AR2209	86.0	3,125	52,900 psi	91.0	3,301	62,800 psi

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338 Remington Ultra Magnum 24" Barrel (cont)								
	185	AR2213SC	91.0	3,035	51,900 psi	97.0	3,233	62,700 psi
	185	AR2217	98.0	3,090	50,500 psi	102.0C	3,229	57,900 psi
	200	AR2209	84.0	3,011	55,400 psi	89.5	3,156	63,000 psi
	200	AR2213SC	91.0	2,979	54,500 psi	96.5	3,138	63,000 psi
	200	AR2217	96.0	2,944	48,300 psi	102.0C	3,127	58,600 psi
	210	AR2209	82.0	2,941	53,700 psi	87.0	3,107	62,900 psi
	210	AR2213SC	89.0	2,913	54,600 psi	94.5	3,084	63,100 psi
	210	AR2217	96.0	2,952	51,200 psi	102.0C	3,153	62,900 psi
	215	AR2209	83.0	2,940	54,100 psi	88.0	3,088	62,700 psi
	215	AR2213SC	89.0	2,881	51,800 psi	94.5	3,057	62,800 psi
	215	AR2217	96.0	2,947	51,800 psi	102.0C	3,127	62,800 psi
	225	AR2209	81.0	2,832	54,200 psi	86.0	2,976	62,600 psi
	225	AR2213SC	88.0	2,825	54,400 psi	93.5	2,977	63,000 psi
	225	AR2217	94.0	2,860	51,400 psi	100.0C	3,058	63,000 psi
	225	AR2225	97.0	2,662	52,800 psi	103.0C	3,055	61,100 psi
	250	AR2209	78.0	2,698	55,700 psi	83.0	2,820	63,000 psi
	250	AR2213SC	84.0	2,662	50,000 psi	90.0	2,858	62,500 psi
	250	AR2217	92.0	2,756	52,400 psi	98.0C	2,923	62,400 psi
	250	AR2225	95.0	2,798	54,600 psi	101.0C	2,964	64,500 psi
	275	AR2209	73.0	2,507	54,800 psi	78.0	2,650	62,900 psi
	275	AR2213SC	81.0	2,570	55,000 psi	86.0	2,693	62,500 psi
	275	AR2217	86.0	2,602	54,800 psi	91.0C	2,729	62,700 psi
	275	AR2225	88.0	2,649	57,900 psi	94.0C	2,764	63,100 psi
357 Magnum Rifle 18.5" Barrel								
	110	AP70N	7.5	1,585	-	8.0	1,670	-
	110	AR2205	18.9	2,072	-	21.0	2,233	-
	125	AP70N	7.1	1,423	-	7.6	1,526	-
	125	AR2205	18.0	1,955	-	20.0	2,122	-
	140	AP70N	6.5	1,282	-	7.0	1,356	-
	140	AR2205	16.2	1,798	-	18.0	1,930	-
	150	AP70N	6.2	1,096	-	6.7	1,323	-
	150	AR2205	15.0	1,663	-	16.5	1,775	-
L	158	AP50N	5.0	1,135	-	5.3	1,200	-
	158	AP70N	5.8	1,059	-	6.3	1,147	-
L	158	AP70N	5.5	1,214	-	6.7	1,380	-
	158	AR2205	14.5	1,578	-	16.0	1,668	-
L	158	AR2205	10.5	1,288	-	11.5	1,382	-
	170	AR2205	13.0	1,442	-	14.5	1,535	-
	180	AR2205	12.7	1,185	-	13.7	1,325	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
35 Remington 24" Barrel								
	180	AR2207	28.0	1,971	-	32.0	2,172	-
	180	AR2219	31.0	1,901	-	35.0	2,104	-
	180	Bench Mark 2	32.5	1,865	-	35.5	2,034	-
	180	AR2206	35.0	1,988	-	38.0	2,150	-
	180	AR2206H	35.0	1,991	-	39.0	2,232	-
	180	AR2208	37.0	1,972	-	40.5	2,196	-
	200	AR2207	27.0	1,816	-	30.5	1,999	-
	200	AR2219	31.0	1,866	-	33.8	1,987	-
	200	Bench Mark 2	32.5	1,847	-	35.5	1,984	-
	200	AR2206	34.0	1,846	-	37.0	2,009	-
	200	AR2206H	35.0	1,920	-	38.5	2,110	-
	200	AR2208	36.0	1,966	-	39.5	2,139	-
	220	AR2207	26.0	1,744	-	29.0	1,867	-
	220	AR2219	29.0	1,692	-	32.5	1,870	-
	220	Bench Mark 2	31.0	1,725	-	34.0	1,865	-
	220	AR2206	32.0	1,710	-	35.0	1,900	-
	220	AR2206H	33.0	1,848	-	36.3	2,010	-
	220	AR2208	34.0	1,803	-	38.0	1,998	-
356 Winchester 20" Barrel								
	180	AR2205	24.0	1,878	-	30.0	2,238	-
	180	AR2207	40.0	2,441	-	43.0	2,600	-
	180	AR2219	44.0	2,360	-	47.0	2,552	-
	180	AR2206H	46.0	2,360	-	49.0	2,535	-
	200	AR2207	37.0	2,201	-	40.0	2,383	-
	200	AR2219	41.0	2,199	-	44.0	2,340	-
	200	AR2206H	43.0	2,170	-	46.0	2,338	-
	250	AR2207	34.0	1,879	-	37.0	2,133	-
	250	AR2219	38.0	1,866	-	41.0	2,106	-
	250	AR2206H	40.0	1,919	-	43.0	2,128	-
358 Winchester 26" Barrel								
	180	AR2207	40.0	2,525	-	43.0	2,711	-
	180	AR2219	40.0	2,380	-	44.0	2,522	-
	180	Bench Mark 2	43.0	2,419	-	47.0	2,574	-
	180	AR2206H	44.0	2,408	-	48.0C	2,603	-
	180	AR2208	47.0	2,442	-	51.0C	2,594	-
	200	AR2207	38.0	2,359	-	41.0	2,532	-
	200	AR2219	40.0	2,306	-	44.8	2,491	-
	200	Bench Mark 2	42.0	2,319	-	46.2	2,494	-
	200	AR2206H	44.0	2,316	-	48.0C	2,519	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
358 Winchester 26" Barrel (cont)								
	200	AR2208	47.0	2,376	-	51.0C	2,527	-
	220	AR2207	38.0	2,287	-	41.0	2,502	-
	220	AR2219	40.0	2,243	-	44.0	2,371	-
	220	Bench Mark 2	41.0	2,184	-	45.0	2,361	-
	220	AR2206H	43.0	2,227	-	47.5C	2,421	-
	220	AR2208	46.0	2,226	-	50.0C	2,445	-
	250	AR2207	36.0	2,198	-	39.0	2,312	-
	250	AR2219	38.0	2,095	-	42.5	2,260	-
	250	Bench Mark 2	38.0	2,030	-	42.0	2,176	-
	250	AR2206H	40.0	2,057	-	44.5C	2,257	-
	250	AR2208	43.0	2,119	-	47.0C	2,278	-
35 Whelen 24" Barrel								
	180	AR2219	55.0	2,707	-	58.0	2,829	-
	180	AR2206	55.5	2,642	-	58.5	2,785	-
	180	AR2206H	56.0	2,649	-	60.0	2,798	-
	180	AR2208	54.0	2,609	-	60.0	2,764	-
	200	AR2219	52.0	2,540	-	56.0	2,691	-
	200	AR2206	52.5	2,545	-	56.5	2,723	-
	200	AR2206H	54.0	2,544	-	57.0	2,689	-
	200	AR2208	52.0	2,508	-	57.0	2,653	-
	220	AR2219	50.0	2,392	-	54.0	2,566	-
	220	AR2206	50.5	2,400	-	54.5	2,580	-
	220	AR2206H	51.0	2,461	-	55.0	2,588	-
	225	AR2208	51.0	2,442	-	56.0	2,588	-
	250	AR2219	48.0	2,249	-	52.0	2,398	-
	250	AR2206	48.0	2,261	-	52.0	2,450	-
	250	AR2206H	49.0	2,330	-	53.0	2,455	-
	250	AR2208	50.0	2,348	-	55.0	2,486	-
350 Remington Magnum 26" Barrel								
	180	AR2207	48.0	2,622	-	51.0	2,808	-
	180	AR2219	53.0	2,688	-	58.0	2,894	-
	180	AR2206	54.0	2,640	-	59.0	2,960	-
	180	AR2206H	56.0	2,696	-	61.0	3,015	-
	180	AR2208	57.0	2,758	-	62.0	3,000	-
	180	AR2213SC	57.0	2,072	-	62.0	2,254	-
	200	AR2207	45.0	2,382	-	48.0	2,512	-
	200	AR2219	50.0	2,427	-	55.0	2,684	-
	200	AR2206	52.0	2,564	-	56.0	2,795	-
	200	AR2206H	54.5	2,625	-	59.0	2,822	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
350 Remington Magnum 26" Barrel (cont)								
	200	AR2208	55.0	2,650	-	60.0	2,828	-
	200	AR2213SC	56.0	1,968	-	61.0	2,144	-
	220	AR2207	43.0	2,304	-	46.0	2,423	-
	220	AR2219	48.0	2,293	-	52.0	2,473	-
	220	AR2206	50.0	2,417	-	54.0	2,610	-
	220	AR2206H	51.5	2,534	-	56.0	2,651	-
	220	AR2208	53.0	2,418	-	57.0	2,600	-
	220	AR2213SC	55.0	1,963	-	60.0	2,141	-
	250	AR2207	39.0	2,069	-	42.0	2,190	-
	250	AR2219	45.0	2,092	-	49.0	2,333	-
	250	AR2206	49.0	2,220	-	52.5	2,450	-
	250	AR2206H	49.5	2,225	-	54.0	2,497	-
	250	AR2208	51.0	2,411	-	55.0	2,550	-
	250	AR2213SC	54.0	1,945	-	59.0	2,125	-
358 Norma Magnum 24" Barrel								
	180	AR2208	62.0	2,795	-	66.0	3,100	-
	180	AR2209	75.0	2,894	-	79.0	3,017	-
	200	AR2208	60.0	2,615	-	65.0	3,000	-
	200	AR2209	74.0	2,852	-	78.0	2,984	-
	250	AR2206H	61.0	2,544	-	65.0	2,736	-
	250	AR2208	57.0	2,478	-	63.0	2,700	-
	250	AR2209	71.0	2,634	-	75.0	2,778	-
358 Shooting Times Alaskan 24" Barrel								
	225	AR2209	-	-	-	87.00	3,119	-
	250	AR2209	-	-	-	84.00	2,933	-
	250	AR2213SC	-	-	-	90.00	2,984	-
	250	AR2217	-	-	-	90.00	2,810	-
	265	AR2209	-	-	-	83.00	2,895	-
	275	AR2209	-	-	-	81.00	2,785	-
	300	AR2209	-	-	-	77.00	2,633	-
9mm x 57 Mauser 24" Barrel								
	250	AR2206	-	-	-	45.00	2,250	-
	250	AR2208	-	-	-	49.00	2,250	-
	280	AR2206	-	-	-	41.50	2,100	-
	280	AR2208	-	-	-	45.00	2,100	-
9.3mm x 62 Mauser 24" Barrel								
	250	AR2206H	51.0	2,233	-	55.0	2,384	-
	250	AR2208	56.0	2,321	-	60.0C	2,453	-
	270	AR2206H	52.0	2,244	-	56.5	2,406	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
9.3mm x 62 Mauser 24" Barrel (cont)								
	270	AR2208	55.0	2,290	-	59.50	2,440	-
	270	AR2209	63.0	2,322	-	67.0C	2,438	-
	286	AR2206H	51.0	2,131	-	55.5	2,331	-
	286	AR2208	55.0	2,242	-	59.0C	2,350	-
	286	AR2209	64.0	2,321	-	67.0C	2,407	-
	300	AR2206H	47.0	1,979	-	52.0	2,133	-
	300	AR2208	52.0	2,083	-	56.0	2,194	-
	300	AR2209	60.0	2,142	-	64.0C	2,288	-
9.3mm x 64 Brennecke 26" Barrel								
	231-234	AR2208	-	-	-	68.00	2,700	-
	231-234	AR2209	-	-	-	73.00	2,700	-
	258	AR2208	-	-	-	66.50	2,500	-
	258	AR2209	-	-	-	70.50	2,500	-
	285-286	AR2208	-	-	-	63.00	2,300	-
	285-286	AR2209	-	-	-	67.50	2,300	-
	293	AR2208	-	-	-	62.00	2,250	-
	293	AR2209	-	-	-	67.00	2,250	-
38-55 Winchester 24" Barrel								
L	250	AR2207	20.0	1,432	-	24.0	1,740	-
L	250	AR2219	24.0	1,534	-	27.0	1,692	-
	255	AR2207	24.0	1,554	-	28.0	1,788	-
	255	AR2219	27.0	1,603	-	33.0	1,830	-
375 Winchester 24" Barrel								
	200	AR2207	35.0	2,288	-	38.0C	2,480	-
	200	AR2219	39.0	2,223	-	42.0C	2,419	-
	220	AR2207	31.0	2,067	-	34.0	2,233	-
	220	AR2219	35.0	2,029	-	38.5C	2,236	-
375 Holland & Holland Magnum 24" Barrel								
	200	AR2206H	67.0	2,828	-	78.5	3,116	-
	200	AR2208	65.0	2,839	-	76.0	3,121	-
	210	AR2206H	67.5	2,865	-	75.0	3,059	-
	210	AR2208	65.0	2,810	-	72.5	3,023	-
	235	AR2206H	69.0	2,743	-	74.0	2,895	-
	235	AR2208	65.0	2,684	-	70.0	2,819	-
	250	AR2206H	64.0	2,574	-	69.0	2,696	-
	250	AR2208	62.0	2,531	-	66.5	2,642	-
	250	AR2209	78.0	2,620	-	83.0C	2,733	-
	270	AR2206H	61.0	2,485	-	68.0	2,624	-
	270	AR2208	63.0	2,530	-	67.0	2,620	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
375 Holland & Holland Magnum 24" Barrel (cont)								
	270	AR2209	80.0	2,609	-	83.0C	2,694	-
	300	AR2206H	61.0	2,411	-	65.0	2,505	-
	300	AR2208	58.0	2,345	-	62.0	2,454	-
	300	AR2209	77.0	2,539	-	81.5C	2,645	-
375 Remington Ultra Magnum 24" Barrel								
	210	AR2208	85.0	3,110	54,700 psi	91.0	3,271	63,100 psi
	210	AR2209	96.0	3,078	52,100 psi	102.5	3,293	63,300 psi
	225	AR2209	95.0	3,027	52,200 psi	101.0	3,214	62,800 psi
	225	AR2213SC	105.0	3,062	56,200 psi	108.0C	3,137	60,600 psi
	235	AR2209	94.0	3,000	54,600 psi	100.0	3,163	63,500 psi
	235	AR2213SC	102.0	2,957	53,800 psi	108.0C	3,111	62,800 psi
	250	AR2209	89.0	2,842	52,800 psi	94.5	3,010	62,700 psi
	250	AR2213SC	98.0	2,850	55,100 psi	103.0	3,090	62,700 psi
	260	AR2209	88.0	2,819	56,300 psi	92.5	2,935	62,900 psi
	260	AR2213SC	95.0	2,767	54,100 psi	101.0	2,923	62,900 psi
	270	AR2209	90.0	2,767	52,400 psi	95.0	2,932	62,600 psi
	270	AR2213SC	99.0	2,779	54,200 psi	104.0C	2,922	62,900 psi
	285	AR2209	88.0	2,724	57,500 psi	92.5	2,836	62,600 psi
	285	AR2213SC	96.0	2,706	55,500 psi	101.0	2,830	62,900 psi
	300	AR2209	85.0	2,598	54,400 psi	90.0	2,733	62,700 psi
	300	AR2213SC	92.0	2,593	54,600 psi	97.0	2,719	62,500 psi
	300	AR2217	103.0	2,628	54,000 psi	105.0C	2,678	57,600 psi
378 Weatherby Magnum 26" Barrel								
	235	AR2209	102.0	3,003	-	109.0	3,224	-
	235	AR2213SC	107.0	2,972	-	117.0	3,202	-
	270	AR2209	99.0	2,779	-	105.0	3,091	-
	270	AR2213SC	105.0	2,724	-	115.0	3,102	-
	300	AR2209	95.0	2,595	-	100.0	2,940	-
	300	AR2213SC	102.0	2,624	-	112.0	2,926	-
38-40 26" Barrel								
	130	AR2205	-	-	-	28.00	2,000	-
	180	AR2205	-	-	-	24.50	1,750	-
404 Jeffery 26" Barrel								
	400	AR2206	-	-	-	63.00	2,100	-
	400	AR2208	-	-	-	71.00	2,100	-
	400	AR2209	-	-	-	80.00	2,100	-
416 Remington Magnum 24" Barrel								
	350	AR2206H	75.0	2,476	-	80.0	2,601	-
	350	AR2208	77.0	2,519	-	82.0	2,622	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
416 Remington Magnum 24" Barrel (cont)								
	400	AR2206H	71.0	2,268	-	76.0	2,391	-
	400	AR2208	72.0	2,276	-	77.0	2,407	-
	400	AR2209	85.0	2,305	-	88.0C	2,395	-
416 Weatherby Magnum 24" Barrel								
	300	AR2209	117.0	2,917	-	122.0	3,051	-
	350	AR2209	112.0	2,728	-	118.0	2,891	-
	400	AR2209	105.0	2,564	-	110.0	2,687	-
	400	AR2213SC	116.0	2,625	-	120.0	2,703	-
	400	AR2217	116.0	2,348	-	120.0	2,419	-
416 Rigby 24" Barrel								
	350	AR2209	94.0	2,507	-	99.0	2,641	-
	400	AR2209	89.0	2,333	-	94.0	2,456	-
	400	AR2213SC	97.0	2,321	-	102.0	2,432	-
	400	AR2217	110.0	2,371	-	116.0C	2,470	-
44-40 Winchester 20" Barrel								
L	200	AS30N	-	-	-	5.00	924	-
L	200	AP70N	-	-	-	7.30	1,069	-
L	200	AR2205	-	-	-	24.00	1,450	-
L	215	AR2205	-	-	-	22.00	1,380	-
	240	AR2205	-	-	-	20.00	1,370	-
Data only for use in Winchester Model 92 & 94, Marlin Model 1894 and Remington Model 14.5 rifles in excellent condition. Either slug the bore to determine appropriate bullet diameters or use 0.427 inch bullet diameters only. Do not use 0.429 inch bullets without first checking barrel bore size.								
44 Remington Magnum (Rifle Only) 20" Barrel								
L	165	AS30N	4.4	949	-	5.5	1,147	-
L	165	AP70N	6.5	1,009	-	7.2	1,138	-
	180	AR2205	27.5	2,005	-	29.0	2,114	-
L	185	AS30N	4.2	859	-	6.0	1,162	-
L	185	AP70N	6.4	993	-	7.4	1,180	-
L	200	AS30N	4.2	874	-	6.4	1,172	-
L	200	AP70N	6.8	1,065	-	7.8	1,209	-
	200	AR2205	25.0	1,840	-	27.0	1,982	-
	210	AR2205	25.0	1,843	-	27.0	1,970	-
	225	AR2205	23.0	1,721	-	25.5	1,897	-
L	240	AS30N	4.3	839	-	6.2	1,062	-
L	240	AP70N	6.5	927	-	10.2	1,374	-
	240	AR2205	22.0	1,624	-	24.0	1,778	-
	270	AR2205	20.5	1,476	-	22.5	1,638	-

CAUTION: DO NOT use the above loads in handguns as chamber pressures will be unsafe for such applications.

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
44 Remington Magnum (Rifle Only) 20" Barrel (cont)								
	280	AR2205	20.0	1,354	-	22.0	1,544	-
	300	AR2205	18.0	1,318	-	20.0	1,452	-
CAUTION: DO NOT use the above loads in handguns as chamber pressures will be unsafe for such applications								
444 Marlin 24" Barrel								
	200	AR2207	46.0	2,309	-	51.2C	2,566	-
	200	AR2219	50.0	2,139	-	52.0C	2,206	-
	200	Bench Mark 2	50.0	2,040	-	54.0	2,212	-
	225	AR2207	42.2	2,107	-	46.9	2,361	-
	225	AR2219	47.0	2,029	-	50.0C	2,144	-
	225	Bench Mark 2	49.0	2,028	-	52.0C	2,127	-
	240	AR2207	44.0	2,206	-	49.2C	2,499	-
	240	AR2219	49.5	2,049	-	52.0C	2,185	-
	240	Bench Mark 2	51.0	2,042	-	55.0C	2,234	-
	240	AR2206H	51.0	1,999	-	53.0C	2,069	-
	260	AR2207	41.0	2,016	-	45.5	2,194	-
	260	AR2219	47.0	1,944	-	52.0C	2,159	-
	260	AR2206H	50.0	1,913	-	53.0C	2,057	-
	265	AR2207	42.0	2,034	-	47.0	2,273	-
	265	AR2219	47.0	1,991	-	52.0C	2,164	-
	265	Bench Mark 2	49.0	1,911	-	53.0C	2,139	-
	265	AR2206H	50.0	1,944	-	53.0C	2,080	-
	270	AR2207	42.0	2,092	-	46.5	2,261	-
	270	AR2219	47.0	1,973	-	52.0C	2,169	-
	270	Bench Mark 2	50.0	1,978	-	54.0C	2,166	-
	270	AR2206H	50.0	1,950	-	53.0C	2,080	-
	275	AR2207	40.0	1,973	-	44.5	2,172	-
	275	AR2219	46.0	1,930	-	51.0C	2,146	-
	275	Bench Mark 2	48.0	1,930	-	51.0C	2,069	-
	275	AR2206H	47.0	1,780	-	52.0C	2,021	-
	280	AR2207	38.0	1,938	-	42.5	2,108	-
	280	AR2219	44.5	1,901	-	49.5	2,120	-
	280	Bench Mark 2	46.0	1,935	-	49.5C	2,070	-
	280	AR2206H	47.0	1,875	-	52.0C	2,089	-
	280	AR2208	49.0	1,914	-	52.0C	2,025	-
	300	AR2207	38.5	1,917	-	42.5	2,082	-
	300	AR2219	43.0	1,776	-	48.0	2,038	-
	300	Bench Mark 2	46.0	1,899	-	48.5	1,993	-
	300	AR2206H	47.0	1,839	-	50.0C	1,931	-
	300	AR2208	47.0	1,784	-	50.0C	1,914	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45/70 Government Lever Actions 24" Barrel								
	300	AR2207	55.0	2,221	-	60.0	2,424	-
	300	AR2219	57.0	2,002	-	63.0C	2,252	-
	350	AR2207	48.5	2,036	-	54.0	2,191	-
	350	Bench Mark 2	56.0	1,886	-	60.0C	2,092	-
	350	AR2206H	53.0	1,784	-	59.0C	2,045	-
	350	AR2208	54.0	1,786	-	60.0C	2,013	-
	400	AR2207	46.0	1,854	-	50.5	2,002	-
	400	Bench Mark 1	48.0	1,800	-	52.0	1,950	-
	400	AR2219	50.0	1,767	-	55.0C	1,984	-
	400	Bench Mark 2	55.0	1,856	-	58.5C	1,986	-
	400	AR2206	54.0	1,865	-	56.0	1,935	-
	400	AR2206H	50.0	1,614	-	55.0C	1,859	-
	400	AR2208	50.0	1,655	-	55.0C	1,845	-

This data is intended for the 1895 lever action Marlin rifles only.

45/70 Government Modern Rifles 24" Barrel								
	300	AR2207	59.5	2,394	-	63.0	2,532	-
	350	AR2207	50.5	2,104	-	56.0	2,300	-
	350	AR2219	52.0	1,898	-	57.0C	2,143	-
	400	AR2207	48.0	1,915	-	53.0	2,108	-
	500	Bench Mark 2	50.0	1,648	-	54.0	1,780	-
	500	AR2206	50.0	1,664	-	55.0	1,830	-
	500	AR2208	54.0	1,685	-	57.0	1,785	-

Note: This data is for use in Ruger No.1 and No.3 single shots, Browning Model 1885 Single Shot and Siamese Mauser Bolt Action Rifles.

45/70 Government Trapdoor Rifle 24" Barrel								
	300	AR2205	37.0	1,790	-	40.0	1,935	-
	300	AR2207	45.0	1,807	-	55.0	2,221	-
	300	Bench Mark 1	46.0	1,725	-	56.0	2,100	-
	300	AR2219	54.0	1,850	-	60.0	2,142	-
	300	Bench Mark 2	59.5	1,907	-	63.5C	2,113	-
	300	AR2206	58.0	1,850	-	62.0C	2,030	-
	300	AR2206H	58.0	1,805	-	62.0C	1,974	-
	300	AR2208	57.0	1,770	-	63.0C	2,020	-
L	385	AR2207	28.0	1,302	-	32.0	1,483	-
L	385	Bench Mark 2	50.0	1,621	-	53.0	1,779	-
L	385	AR2206H	35.0	1,280	-	42.0	1,526	-
L	385	AR2208	42.5	1,537	-	52.5	1,805	-
	400	AR2207	40.0	1,582	-	44.0	1,740	-

This data is intended for Springfield "Trapdoor" 1886, rolling block and antique replica rifles.

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45/70 Government Trapdoor Rifle 24" Barrel (cont)								
	400	Bench Mark 1	42.0	1,520	-	46.00	1,665	-
	400	Bench Mark 2	47.0	1,591	-	52.00	1,760	-
	400	AR2206	47.0	1,600	-	52.00	1,770	-
	400	AR2208	49.0	1,597	-	54.0	1,760	-
L	405	AR2207	27.0	1,251	-	31.0	1,459	-
L	405	Bench Mark 2	47.0	1,564	-	50.0	1,695	-
L	405	AR2206H	40.0	1,424	-	48.0	1,645	-
L	405	AR2208	40.0	1,392	-	50.0	1,718	-
L	485	AR2207	28.0	1,279	-	32.0	1,434	-
L	485	Bench Mark 2	38.0	1,290	-	43.0	1,503	-
This data is intended for Springfield "Trapdoor" 1886, rolling block and antique replica rifles.								
45-90 Winchester 24" Barrel								
	300	AR2207	-	-	-	36.50	1,500	-
	400	AR2207	-	-	-	30.50	1,350	-
577/450 Martini Henry 24" Barrel								
L	400	AR2207	-	-	-	37.00	1,300	-
450 Nitro Express 24" Barrel								
	500	AR2208	-	-	-	84.00	2,150	-
	500	AR2209	-	-	-	100.00	2,150	-
450 Marlin 24" Barrel								
	250	AR2207	51.0	2,253	33,600 psi	57.0C	2,509	42,200 psi
	300	AR2207	48.0	2,116	33,900 psi	53.0	2,321	42,200 psi
	300	AR2219	56.0	2,160	32,900 psi	59.0C	2,289	37,300 psi
	350	AR2207	43.0	1,939	35,700 psi	48.5	2,119	42,200 psi
	350	AR2219	53.0	2,043	36,500 psi	58.0C	2,196	42,300 psi
	350	Bench Mark 2	56.0	2,004	33,300 psi	59.0C	2,129	38,600 psi
	400	AR2207	41.0	1,872	41,200 psi	45.5	1,958	42,600 psi
	400	AR2219	48.0	1,862	34,800 psi	52.5C	2,023	41,900 psi
	400	Bench Mark 2	50.0	1,811	33,000 psi	55.0C	2,010	42,500 psi
	400	AR2206H	51.0	1,817	34,700 psi	56.0C	1,986	42,000 psi
	400	AR2208	54.0	1,803	33,500 psi	57.0C	1,910	38,000 psi
45-120 Sharps 24" Barrel								
L	350	AR2207	46.0	1,783	-	49.0	1,903	-
L	350	AR2219	50.0	1,717	-	53.0	1,874	-
L	350	Bench Mark 2	53.0	1,809	-	57.0	1,922	-
L	350	AR2206H	59.0	1,875	-	64.0	2,031	-
L	405	AR2207	45.0	1,708	-	48.0	1,818	-
L	405	AR2219	49.0	1,665	-	52.5	1,793	-
L	405	Bench Mark 2	53.0	1,805	-	58.0	1,917	-

RIFLE

CALIBRE		BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
				POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45-120 Sharps 24" Barrel (cont)									
	L	405	AR2206H	58.0	1,849	-	64.0	2,012	-
	L	405	AR2208	59.0	1,763	-	63.0	1,858	-
	L	500	AR2207	42.0	1,523	-	46.5	1,650	-
	L	500	AR2219	48.0	1,568	-	52.0	1,695	-
	L	500	Bench Mark 2	50.0	1,607	-	54.5	1,747	-
	L	500	AR2206H	54.0	1,641	-	60.0	1,809	-
	L	500	AR2208	56.0	1,618	-	61.0	1,737	-
458 Winchester Magnum 24" Barrel									
		300	AR2207	72.0	2,669	-	77.0C	2,784	-
		300	AR2219	78.0	2,633	-	83.0C	2,753	-
		300	Bench Mark 2	74.0	2,376	-	80.0C	2,524	-
		350	AR2207	67.0	2,426	-	72.0	2,548	-
		350	AR2219	75.0	2,469	-	80.0C	2,589	-
		350	Bench Mark 2	71.0	2,250	-	79.0C	2,468	-
		350	AR2206	77.0	2,425	-	79.5	2,480	-
		350	AR2206H	77.0	2,419	-	80.0C	2,496	-
		400	AR2207	61.0	2,197	-	67.0	2,323	-
		400	AR2219	68.5	2,211	-	76.0C	2,407	-
		400	Bench Mark 2	70.0	2,138	-	78.0C	2,343	-
		400	AR2206	72.0	2,200	-	77.0C	2,345	-
		400	AR2206H	72.0	2,214	-	77.0C	2,349	-
		400	AR2208	74.0	2,246	-	77.0C	2,310	-
		450	AR2207	56.5	2,001	-	60.0	2,092	-
		450	AR2219	67.0	2,139	-	71.0C	2,220	-
		450	Bench Mark 2	70.0	2,090	-	75.0C	2,220	-
		450	AR2206H	70.0	2,108	-	74.0C	2,205	-
		450	AR2208	70.0	2,083	-	74.0C	2,195	-
		500	AR2207	53.0	1,887	-	58.5	1,987	-
		500	AR2219	62.5	1,935	-	69.5C	2,109	-
		500	Bench Mark 2	68.0	2,017	-	73.0C	2,123	-
		500	AR2206	69.0	2,050	-	73.5C	2,185	-
		500	AR2206H	70.0	2,068	-	74.0C	2,205	-
		500	AR2208	70.0	2,056	-	74.0C	2,152	-
460 Weatherby Magnum 26" Barrel									
		350	AR2206H	100.0	2,514	-	110.0	2,760	-
		350	AR2209	115.0	2,595	-	120.0	2,737	-
		350	AR2213SC	118.0	2,481	-	128.0	2,678	-
		400	AR2206H	97.0	2,404	-	107.0	2,589	-
		400	AR2209	112.0	2,431	-	118.0	2,610	-

RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
460 Weatherby Magnum 26" Barrel (cont)								
	400	AR2213SC	117.0	2,434	-	127.0	2,565	-
	500	AR2206H	95.0	2,314	-	105.0	2,478	-
	500	AR2209	108.0	2,371	-	115.0	2,508	-
	500	AR2213SC	116.0	2,386	-	126.0	2,469	-
	600	AR2209	98.0	2,292	-	104.0	2,439	-
	600	AR2213SC	110.0	2,302	-	115.0	2,457	-
470 Nitro Express 24" Barrel								
	500	AR2209	108.0	2,024	-	112.0	2,141	-
	500	AR2213SC	114.0	2,039	-	119.0	2,159	-
	500	AR2217	120.0	1,948	-	125.0	2,063	-
	600	AR2213SC	100.0	1,827	-	105.0	1,941	-
	600	AR2217	110.0	1,844	-	115.0	1,933	-
500 Jeffery 45" Barrel								
	535	AR2206	-	-	-	96.00	2,300	-
50 Browning Machine Gun 45" Barrel								
	655	AR2218	-	-	-	248.0	3,029	-
	750	AR2218	-	-	-	233.0	2,800	-
	800	AR2218	-	-	-	225.0	2,725	-



Single Action Data

Due to its popularity, we again present a separate section for Single Action Data. Many of these loads were developed through an extensive program by the Hodgdon Powder Company Inc. of the USA, to whom we are indebted for their contribution.

SINGLE ACTION DATA

Single Action Data

Introduction

Velocities for all cartridges listed are limited by the SAAMI maximum allowable pressures. Minimum loads are established by pressure. Loads with very low pressure may fail to function in very cold weather, resulting in a bullet becoming lodged in the bore (please see the Warnings section of this guide).

The average loss in velocity from the listed pressure barrel data when using a 4 5/8-inch barrelled revolver is 175 fps. A 7 1/2 inch revolver will lose approximately 50 fps.

Carbines will generally develop velocities similar to those listed in the data. Some carbine/cartridge combinations will exceed the velocities listed.

Because of a wide variation in bullet diameter, chamber diameter, cylinder gap, case capacity and manufacturing variations in primers and powder, we suggest that you chronograph loads from your own firearms.

DO NOT LOAD BELOW MINIMUM

RECOMMENDATIONS. Doing so could result in a bullet stuck in the bore.

Long Range Rifle Data

The loads listed below are representative of common calibres used. As there are so many cartridges which could be used, only a few are shown.

DO NOT USE ANY FILLER MATERIAL WITH THESE LOADS, as fillers can alter pressure and velocities decidedly. Velocities are limited to approximately 1,600 fps due to excessive leading at higher velocities.

Use flat point bullets in tubular magazines.

Shotgun

Any load suitable for trap or skeet is suitable for Single Action shooting. Shot loads of 7/8 oz., 1 oz. and 1 1/8 oz. are all that is required. Heavier loads generate more recoil and are, at best, unpleasant to shoot and, at worst, add time to your score.

The loads included in this guide were selected for their performance and for component availability.

Remember:

1. Smooth shells come out of a double-barrelled shotgun better than ribbed shells.
2. NO STEEL SHOT.
3. NO SHOT LARGER THAN #4. Size 6, 7 1/2 and 8 are most common.
4. CHECK YOUR RELOADS IN YOUR GUN FOR PROPER FUNCTION.

*Damascus barrels should be considered unsafe with ANY powder.



SINGLE ACTION RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
30-30 Winchester								
	160 Cast	AR2207	15.0	1,420	15,000 cup	17.0	1,616	20,600 cup
	160 Cast	AR2206H	17.5	1,351	15,200 cup	21.0	1,562	23,100 cup
32-40 Winchester								
	196 Cast	AR2205	12.6	1,200	-	13.0	1,267	18,000 cup
38-55 Winchester								
	250 Cast	AR2207	18.5	1,408	17,100 cup	21.0	1,608	23,700 cup
	250 Cast	AR2206H	21.0	1,197	18,200 cup	26.0	1,600	26,500 cup
45-120 Sharps								
	350 Lead	AR2207	46.0	1,783	22,500 cup	49.0	1,903	27,500 cup
	350 Lead	AR2219	50.0	1,717	21,000 cup	53.0	1,874	27,700 cup
	350 Lead	Bench Mark 2	53.0	1,809	24,700 cup	57.0	1,922	26,800 cup
	350 Lead	AR2206H	59.0	1,875	24,800 cup	64.0	2,031	26,900 cup
	405 Lead	AR2207	45.0	1,708	24,700 cup	48.0	1,818	27,200 cup
	405 Lead	AR2219	49.0	1,665	23,200 cup	52.5	1,793	27,900 cup
	405 Lead	Bench Mark 2	53.0	1,805	26,500 cup	58.0	1,917	27,200 cup
	405 Lead	AR2206H	58.0	1,849	26,000 cup	64.0	2,012	28,300 cup
	405 Lead	AR2208	59.0	1,763	24,200 cup	63.0	1,858	28,200 cup
	500 Lead	AR2207	42.0	1,523	25,200 cup	46.5	1,650	28,300 cup
	500 Lead	AR2219	48.0	1,568	25,400 cup	52.0	1,695	28,300 cup
	500 Lead	Bench Mark 2	50.0	1,607	26,600 cup	54.5	1,747	28,200 cup
	500 Lead	AR2206H	54.0	1,641	24,400 cup	60.0	1,809	28,500 cup
	500 Lead	AR2208	56.0	1,618	24,200 cup	61.0	1,737	27,900 cup
45-70 Government								
	300 Cast	AR2207	30.0	1,390	14,400 cup	35.5	1,641	16,100 cup
	300 Cast	AR2206H	45.0	1,572	14,400 cup	51.0	1,703	15,500 cup
	300 Cast	AR2208	45.0	1,599	17,800 cup	55.0	1,880	20,600 cup
	385 Cast	AR2207	28.0	1,302	13,300 cup	32.0	1,483	14,700 cup
	385 Cast	AR2206H	35.0	1,280	11,900 cup	42.0	1,526	23,100 cup
	385 Cast	AR2208	42.5	1,537	15,400 cup	52.5	1,805	21,800 cup
	405 Cast	AR2207	27.0	1,251	14,200 cup	31.0	1,459	17,100 cup
	405 Cast	AR2206H	40.0	1,424	14,900 cup	48.0	1,645	18,900 cup
	405 Cast	AR2208	40.0	1,392	15,600 cup	50.0	1,718	20,900 cup
	485 Cast	AR2207	28.0	1,279	16,400 cup	32.0	1,434	20,400 cup
	485 Cast	AR2206H	32.0	1,155	15,600 cup	39.0	1,403	22,700 cup
50-140 Sharps								
	425 Lead	AR2208	95.0	2,127	23,600 cup	102.5	2,294	28,100 cup
	425 Lead	AR2209	105.0	2,033	21,600 cup	114.0	2,242	26,700 cup
	425 Lead	AR2213SC	118.0	2,079	22,800 cup	125.0	2,209	26,300 cup
	515 Lead	AR2208	87.0	1,958	24,000 cup	95.0	2,088	27,900 cup

SINGLE ACTION RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
50-140 Sharps (cont)								
	515 Lead	AR2209	101.0	1,916	22,000 cup	108.0	2,091	27,200 cup
	515 Lead	AR2213SC	112.0	1,956	23,200 cup	118.0	2,085	27,500 cup

SINGLE ACTION PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25-20 Winchester								
	71 Lead RNFP	AR2205	6.0	1,146	13,700 cup	7.0	1,346	18,200 cup
	85 Lead RNFP	AR2205	6.0	1,129	18,500 cup	7.0	1,317	20,500 cup
32 H & R Magnum								
	90 Lead RNFP	AP70N	3.0	819	8,400 cup	3.2	908	11,500 cup
32-20 Winchester (Colt Pistol)								
	115 Lead RNFP	AP70N	3.0	808	14,200 cup	3.2	869	16,000 cup
32-20 Winchester (Ruger Pistol & Rifle Data only)								
	115 Lead RNFP	AP70N	3.2	869	16,000 cup	4.0	1,037	22,600 cup
357 Magnum								
	125 Lead RNFP	AS30N	3.5	984	11,900 cup	5.3	1,260	33,000 cup
	125 Lead RNFP	AP70N	4.8	1,046	11,000 cup	6.8	1,401	34,200 cup
	135 Lead RNFP	AS30N	3.4	914	12,200 cup	5.1	1,207	30,200 cup
	135 Lead RNFP	AP70N	4.8	986	11,700 cup	6.5	1,314	27,800 cup
	135 Lead SWC	AP50N	4.0	870	16,700 psi	5.2	1,065	31,900 psi
	158 Lead SWC	AS30N	3.2	867	14,400 cup	4.6	1,079	33,600 cup
	158 Lead SWC	AP70N	4.0	890	15,700 cup	6.2	1,247	33,400 cup
	158 Lead SWC	AP50N	5.0	925	21,800 psi	5.8	1,030	33,000 psi
38 Special								
	125 Lead RNFP	AS30N	2.5	810	8,400 cup	3.5	978	16,900 cup
	125 Lead RNFP	AP70N	4.3	872	8,700 cup	4.7	1,036	16,800 cup
	135 Lead RNFP	AS30N	2.6	767	11,400 cup	3.3	910	16,200 cup
	135 Lead RNFP	AP70N	4.1	924	13,400 cup	4.6	1,025	16,900 cup
	135 Lead SWC	AP50N	2.8	645	9,450 psi	3.5	845	16,850 psi
	158 Lead SWC	AS30N	2.8	812	12,900 cup	3.1	871	15,100 cup
	158 Lead SWC	AS50N	3.0	798	12,400 cup	3.5	903	16,100 cup
	158 Lead SWC	AP70N	3.5	756	9,600 cup	4.5	974	16,700 cup
	158 Lead SWC	AP50N	3.2	660	8,200 psi	3.8	800	16,600 psi
38-40 WCF								
	180 Lead RNFP	AS30N	4.7	760	8,700 psi	5.5	889	13,500 psi
	180 Lead RNFP	AP70N	6.9	813	8,200 psi	7.5	955	11,900 psi
44 Magnum								
	160-165 Lead RNFP	AS30N	4.4	910	8,500 cup	5.5	1,064	15,500 cup
	160-165 Lead RNFP	AP70N	6.5	918	7,700 cup	7.2	1,059	11,500 cup
	185 Lead RNFP	AS30N	4.2	839	8,900 cup	6.0	1,043	18,400 cup
	185 Lead RNFP	AP70N	6.4	919	8,400 cup	7.4	1,070	12,600 cup
	200 Lead RNFP	AS30N	4.2	785	8,500 cup	6.4	1,028	20,200 cup
	200 Lead RNFP	AS50N	5.3	854	10,000 cup	6.8	1,044	18,300 cup
	200 Lead RNFP	AP70N	6.8	897	10,500 cup	7.8	1,045	15,400 cup
	240 Lead SWC	AS30N	4.3	759	14,000 cup	6.2	940	21,800 cup

SINGLE ACTION PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
44 Magnum (cont)								
	240 Lead SWC	AP50N	5.5	835	15,280 psi	8.5	1,130	31,955 psi
	240 Lead SWC	AS50N	4.5	737	9,900 cup	6.5	970	21,700 cup
	240 Lead SWC	AP70N	6.5	852	11,700 cup	7.6	1,009	19,900 cup
44 Russian								
	160-165 Lead RNFP	AS30N	3.0	776	7,300 cup	4.0	977	11,100 cup
	200 Lead RNFP	AS30N	3.2	747	8,000 cup	3.7	837	11,100 cup
	200 Lead RNFP	AP70N	4.8	816	8,100 cup	5.7	970	11,500 cup
	240 Lead RNFP	AS30N	3.0	711	9,400 cup	3.5	769	10,700 cup
	240 Lead RNFP	AP70N	3.8	679	6,400 cup	4.6	841	11,000 cup
44 Special								
	160-165 Lead RNFP	AS30N	3.6	836	6,000 cup	4.6	1,009	13,400 cup
	160-165 Lead RNFP	AP70N	5.5	851	5,700 cup	6.3	1,042	10,900 cup
	185 Lead RNFP	AS30N	3.5	810	7,800 cup	4.2	930	13,200 cup
	185 Lead RNFP	AP70N	5.4	823	7,700 cup	6.4	1,031	13,900 cup
	200 Lead RNFP	AS30N	3.5	748	7,800 cup	4.5	891	14,000 cup
	200 Lead RNFP	AS50N	4.3	774	7,300 cup	5.2	919	13,500 cup
	200 Lead RNFP	AP70N	5.5	802	8,200 cup	6.5	960	12,900 cup
	240 Lead SWC	AS30N	3.2	669	9,000 cup	4.0	771	13,500 cup
	240 Lead SWC	AS50N	3.9	723	8,900 cup	4.7	825	13,000 cup
	240 Lead SWC	AP70N	4.9	721	8,000 cup	5.6	873	13,300 cup
44-40 WCF								
	200 Lead RNFP	AS30N	4.2	648	8,200 psi	5.0	765	11,700 psi
	200 Lead RNFP	AP70N	6.6	722	10,000 psi	7.3	777	11,100 psi
	200 Lead SWC	AP50N	5.5	755	4,200 psi	6.5	920	8,900 psi
	200 Lead SWC	AR2205	18.0	885	7,500 psi	20.0	1,030	12,900 psi
	215 Lead SWC	AP50N	5.5	805	6,250 psi	6.4	940	13,800 psi
45 Long Colt								
	160-165 Lead RNFP	AS30N	5.0	907	7,500 cup	6.4	1,083	13,500 cup
	160-165 Lead RNFP	AP70N	6.5	798	7,400 cup	9.5	1,197	12,900 cup
	180 Lead RNFP	AS30N	4.8	840	7,900 cup	6.0	1,016	13,800 cup
	180 Lead RNFP	AP70N	6.5	791	7,100 cup	9.2	1,161	13,900 cup
	200 Lead RNFP	AS30N	4.6	777	5,900 cup	5.9	931	13,100 cup
	200 Lead RNFP	AP70N	6.4	749	5,700 cup	8.8	1,067	13,600 cup
	200 Lead SWC	AP50N	5.5	750	7,570 psi	7.0	995	12,330 psi
	215 Lead RNFP	AS30N	4.6	754	6,400 cup	5.7	889	13,400 cup
	215 Lead RNFP	AP70N	6.8	777	6,300 cup	8.6	1,001	13,800 cup
	225-230 Lead RNFP	AS30N	4.4	734	7,600 cup	5.4	865	13,900 cup
	225-230 Lead RNFP	AP70N	6.5	761	7,600 cup	8.1	975	13,800 cup
	250 Lead RNFP	AS30N	4.2	713	8,500 cup	5.1	817	13,400 cup

SINGLE ACTION PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45 Long Colt (cont)								
	250 Lead RNFP	AS50N	5.4	786	9,200 cup	6.0	866	13,400 cup
	250 Lead RNFP	AP70N	6.5	742	9,200 cup	7.8	941	13,000 cup
	255 Lead SWC	AP50N	6.0	750	7,850 psi	7.0	895	11,470 psi
	255 Lead SWC	AP70N	8.0	825	10,300 psi	8.5	905	13,100 psi
	255 Lead SWC	AP100	11.0	835	10,800 psi	12.0	975	16,650 psi
45 S & W (Schofield)								
	200 Lead RNFP	AS30N	4.0	733	8,300 cup	5.0	845	13,100 cup
	200 Lead RNFP	AP70N	6.0	773	9,100 cup	7.0	938	13,100 cup
	225-230 Lead RNFP	AS30N	4.0	697	9,400 cup	4.7	783	13,600 cup
	225-230 Lead RNFP	AP70N	5.5	738	9,400 cup	6.0	816	11,400 cup
	250 Lead RNFP	AS30N	4.0	674	11,000 cup	4.2	710	12,500 cup
	250 Lead RNFP	AP70N	6.0	724	9,900 cup	6.3	830	13,800 cup

SINGLE ACTION SHOTGUN

12 Gauge 2¾" Remington Premier Plastic Shells

Weight: 28g (1 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AS30N	16.8	6,600 lup	1,125	Rem. TGT 12	Rem. 209P
	15.7	7,100 lup	1,125	WAA12SL	WIN209
	17.9	7,400 lup	1,180	Rem. TGT 12	Rem. 209P
	17.0	8,200 lup	1,180	WAA12SL	WIN209
	18.9	8,100 lup	1,235	Rem. TGT 12	Rem. 209P
	18.4	9,500 lup	1,235	WAA12SL	WIN209
	19.9	8,800 lup	1,290	Rem. TGT 12	Rem. 209P
	19.8	10,700 lup	1,290	WAA12SL	WIN209
AS50N	20.2	6,800 lup	1,125	Rem. TGT 12	Rem. 209P
	18.4	7,100 lup	1,125	WAA12SL	WIN209
	20.9	7,700 lup	1,180	Rem. TGT 12	Rem. 209P
	20.1	8,600 lup	1,180	WAA12SL	WIN209
	21.4	8,900 lup	1,235	Rem. TGT 12	Rem. 209P
	21.0	10,000 lup	1,235	WAA12SL	WIN209

Weight: 32g (1 1/8 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AS30N	16.6	6,400 lup	1,090	Windjammer	CCI209
	16.9	6,900 lup	1,090	Rem. Fig 8	Rem. 209P
	18.0	7,500 lup	1,145	Windjammer	CCI209
	18.0	7,900 lup	1,145	Rem. Fig 8	Rem. 209P
	19.4	8,600 lup	1,200	Windjammer	CCI209
	19.2	9,000 lup	1,200	Rem. Fig 8	Rem. 209P
AS50N	19.2	6,100 lup	1,090	Windjammer	CCI209
	18.6	6,400 lup	1,090	Rem. Fig 8	Rem. 209P
	18.3	7,000 lup	1,090	WAA12	Rem. 209P
	19.8	6,500 lup	1,145	Windjammer	CCI209
	19.6	7,000 lup	1,145	Rem. Fig 8	Rem. 209P
	18.8	7,600 lup	1,145	WAA12	Rem. 209P
	21.2	7,500 lup	1,200	Windjammer	CCI209
	20.9	7,500 lup	1,200	Rem. Fig 8	Rem. 209P
	19.7	8,700 lup	1,200	WAA12	Rem. 209P
	22.3	8,300 lup	1,255	Windjammer	CCI209
	20.9	10,400 lup	1,255	WAA12	Rem. 209P
	21.7	9,100 lup	1,255	Rem. Fig 8	Rem. 209P
AP70N	23.2	8,400 psi	1,200	Windjammer	CCI209
	22.5	8,900 psi	1,200	Rem. Fig 8	WIN209
	21.5	9,800 psi	1,200	WAA12	WIN209
	24.4	9,100 psi	1,255	Windjammer	CCI209
	23.7	9,900 psi	1,255	Rem. Fig 8	WIN209
	23.0	10,700 psi	1,255	WAA12	WIN209
	25.0	10,800 psi	1,310	Rem. Fig 8	WIN209
	25.7	10,200 psi	1,310	Windjammer	CCI209

SINGLE ACTION SHOTGUN

12 Gauge 2¾" Winchester Compression-Formed AA Type Shells

Weight: 28g (1 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AS30N	16.6	6,700 lup	1,125	Rem. TGT 12	CCI209
	16.0	7,400 lup	1,125	WAA12SL	WIN209
	17.6	6,400 lup	1,125	Purple PC	Rem. 209P
	17.7	7,700 lup	1,180	Rem. TGT 12	CCI209
	18.6	6,800 lup	1,180	Purple PC	Rem. 209P
	17.2	8,300 lup	1,180	WAA12SL	WIN209
	18.7	8,500 lup	1,235	Rem. TGT 12	CCI209
	19.5	7,200 lup	1,235	Purple PC	Rem. 209P
	18.5	9,200 lup	1,235	WAA12SL	WIN209
	19.8	9,500 lup	1,290	Rem. TGT 12	CCI209
	20.5	7,600 lup	1,290	Purple PC	Rem. 209P
	19.8	10,200 lup	1,290	WAA12SL	WIN209
AS50N	18.9	6,900 lup	1,125	WAA12SL	WIN209
	19.2	6,700 lup	1,125	WAA12SL	CCI209
	20.8	5,900 lup	1,125	Rem. TGT 12	Rem. 209P
	20.4	8,300 lup	1,180	WAA12SL	WIN209
	20.6	7,500 lup	1,180	WAA12SL	CCI209
	21.5	7,100 lup	1,180	Rem. TGT 12	Rem. 209P
	21.3	8,900 lup	1,235	WAA12SL	WIN209
	22.3	8,800 lup	1,235	WAA12SL	CCI209
	22.3	7,800 lup	1,235	Rem. TGT 12	Rem. 209P

Weight: 32g (1 1/8 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AS30N	17.1	7,200 lup	1,090	Red PC	Rem. 209P
	16.1	7,700 lup	1,090	WAA12	WIN209
	16.0	7,700 lup	1,090	Rem. Fig 8	WIN209
	18.4	7,800 lup	1,145	Red PC	Rem. 209P
	17.3	8,800 lup	1,145	WAA12	WIN209
	17.0	8,500 lup	1,145	Rem. Fig 8	WIN209
	19.6	8,400 lup	1,200	Red PC	Rem. 209P
	18.2	9,800 lup	1,200	WAA12	WIN209
	18.1	9,400 lup	1,200	Rem. Fig 8	WIN209
	17.6	7,400 lup	1,090	WAA12	WIN209
	18.3	6,800 lup	1,090	Red PC	WIN209
	20.1	6,300 lup	1,145	Rem. Fig 8	Rem. 209P
AS50N	18.1	8,300 lup	1,145	WAA12	WIN209
	18.9	7,200 lup	1,145	Red PC	WIN209
	21.1	7,700 lup	1,200	Rem. Fig 8	Rem. 209P
	19.2	9,600 lup	1,200	WAA12	WIN209
	20.2	8,300 lup	1,200	Red PC	WIN209
	22.1	8,000 lup	1,255	Rem. Fig 8	Rem. 209P
	21.3	10,800 lup	1,255	WAA12	WIN209

SINGLE ACTION SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
Weight: 32g (1 1/8 oz) (cont)					
	21.3	9,700 lup	1,255	Red PC	WIN209
AP70N	22.5	9,000 psi	1,200	Rem. Fig 8	WIN209
	22.0	10,000 psi	1,200	WAA12	WIN209
	22.7	10,600 psi	1,255	WAA12	WIN209
	23.5	10,000 psi	1,255	Rem. Fig 8	WIN209
	24.5	10,700 psi	1,310	Rem. Fig 8	WIN209

16 Gauge 2¾" Remington Premier SP Plastic Shells

Weight: 28g (1 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AP70N	18.5	8,800 psi	1,165	Rem. SP 16	WIN209
	18.5	9,000 psi	1,165	WAA12	WIN209
	19.8	9,900 psi	1,220	Rem. SP 16	WIN209
	19.5	9,000 psi	1,220	WAA12	WIN209
	20.5	10,400 psi	1,275	Rem. SP 16	WIN209
	20.5	10,400 psi	1,275	WAA12	WIN209

16 Gauge 2¾" Winchester Compression-Formed Shells

Weight: 28g (1 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AP70N	19.0	8,800 psi	1,165	ACTIV G-28	WIN209
	19.0	9,200 psi	1,165	WAA16	WIN209
	20.3	9,700 psi	1,220	ACTIV G-28	WIN209
	20.0	10,300 psi	1,220	WAA16	WIN209
	21.5	10,600 psi	1,275	ACTIV G-28	WIN209
	20.7	11,000 psi	1,275	WAA16	WIN209

20 Gauge 2¾" Remington RXP Plastic Shells

Weight: 24g (7/8 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AS50N	14.0	10,700 psi	1,200	RXP20	Rem. 209P
	14.0	11,900 psi	1,200	WAA20	WIN209
AP70N	15.8	9,000 psi	1,200	RXP20	Rem. 209P
	15.8	9,600 psi	1,200	WAA20	WIN209

SINGLE ACTION SHOTGUN

20 Gauge 2¾" Winchester Compression-Formed AA Type Shells

Weight: 24g (7/8 oz)					
POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AS50N	14.0	10,800 psi	1,200	RXP20	Rem. 209P
	14.0	11,200 psi	1,200	PC20	WIN209
	14.0	11,800 psi	1,200	WAA20	WIN209
AP70N	15.8	9,800 psi	1,200	RXP20	Rem. 209P
	15.5	10,200 psi	1,200	WAA20	WIN209

POWDER EQUIVALENTS

MANUFACTURERS									
ADI	Hodgdon	Alliant	IMR	Winchester	Vectan	Norma	Accurate Arms	Vihtavuori	ADI
		Bullseye				R-1		N310	
AS30N	Clays	Red Dot			AS	N2010	NITRO 100		AS30N
AP50N	HP-38	e3	PB	W231			AA 2	N320	AP50N
AS50N	International	Green Dot	700X	WST			AA 5		AS50N
AP70N	Universal	Unique	SR 7625					N330	AP70N
		Herco		WSF	A1				
			800X	WAP			AA 7	N340	
AP100			SR 4756						AP100
	HS-6			W540				3N37	
	HS-7	Blue Dot		W571			AA 9	N350	
		Steel			Ba 6			N105	
		2400	SR 4759					N110	
AR2205	H4227 / H110		IMR 4227	W296		R-123	AA 1680	N120	AR2205
AR2207	H4198	Reloader 7	IMR 4198	W680	Tu 2000	N200		N130	AR2207
Bench Mark 1								N133	Bench Mark 1
AR2219	H322	10-X							AR2219
Bench Mark 2	BENCHMARK		IMR 3031				AA 2015		Bench Mark 2
AR2206	BLC(2)				Tu 3000		AA 2230		AR2206
	H335			W748				N135	
AR2206H	H4895		IMR 4895		Tu 5000		AA 2460		AR2206H
AR2208	Varget		IMR 4064				AA 2520		AR2208
			IMR 4320			N201			
						N202	AA 2700	N140 / N540	
	H380	Reloader 15				N203			
AR2209	H414 / H4350		IMR 4350	W760	Tu 7000	N204	AA 4350	N150 / N550	AR2209
	H450	Reloader 19				N205			
			IMR 4381	WMR			AA 3100	N160 / N560	
AR2213SC	H4831								AR2213SC
		Reloader 22	IMR 7828	WXR	Tu 8000	MRP		N165	
AR2217	H1000							N170	AR2217
AR2225	Retumbo	Reloader 25						24N41	AR2225
AR2218	H870 / H50BMG						AA 8700	20N29	AR2218

NOTES:

This table shows only approximate equivalent values within about 5%.

Actual burning rates can vary depending on the calibre, weapon, loading components and practices, as well as from powder lot to powder lot. As a consequence, it must be understood that we cannot accept any responsibility for the use of this information in any way.

BURNING RATE EXAMPLES

This section provides examples of applications for the ADI powders across the range of burning rates.

POWDER	BURNING RATE	EXAMPLES OF APPLICATION		
		PISTOL	SHOTGUN	RIFLE
AS30N	Fastest		12 Gauge Trap/Skeet Load	
AP50N	↑	.45 ACP		
AS50N			12 Gauge Trap/Sporting	
AP70N		40-40 Winchester	12 Gauge Field Load	
AP100		.38 Super Auto	20 Gauge	
AR2205		357 Magnum	410 Gauge	.22 Hornet
AR2207		.7mm TCU		.222 Remington
Bench Mark 1				.223 Remington
AR2219				6mm PPC
Bench Mark 2				.22-250 Remington
AR2206				.308 Winchester
AR2206H				.308 Winchester
AR2208				30-30 Winchester
AR2209				30-06 Springfield
AR2213SC				300 Win. Magnum
AR2217				7mm Rem. Magnum
AR2225	↓			300 Rem. Ultra Magnum
AR2218	Slowest			.30/378 Weatherby



The ADI Smokeless Powders Handloaders Guide is available at a cost of \$2.50 from major gun shops where ADI powders are sold.

For handloading information:

ADI will respond to written enquiries with safe and technically accurate advice. Mail your enquiries to: Reloading Enquiries, ADI Limited, Private Bag No 1, MULWALA, NSW 2647; or fax to: +61 3 5744 1873.

Visit us at: <http://www.adi-limited.com>

or visit the ADI Reloading Web site at

<http://www.adi-limited.com/handloaders-guide>

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ADI powders are sold at major gun shops.